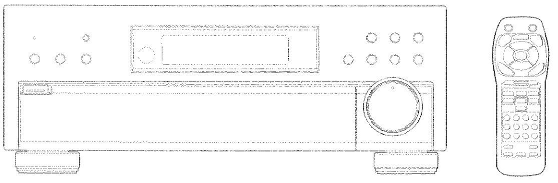
Operating Instructions

ISC Intelligent System Control

AUDIO/ VIDEO STEREO RECEIVER

VSX-D736S



PIONEER®
The Art of Entertainment

Thank you for buying this Pioneer product.

Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.

In some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the explanatory drawings. However the method of connecting and operating the unit is the same.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

RESET function

Set the MASTER VOLUME to minimum before pressing the RESET button.

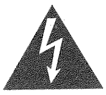
Use this function when normal operation is not possible due to external influences such as static electricity or lightning, or when operations are not functioning even when the operation switches are pressed. Press the RESET button to return to normal operating conditions.

VENTILATION

- When installing this unit, make sure to leave space around the unit for ventilation to improve heat radiation (at least 60 cm at top, 10 cm at rear, and 30 cm at each side). If not enough space is provided between the unit and walls or other equipment, heat will build up inside, interfering with performance or causing malfunctions.
- Do not place on a thick carpet, bed, sofa or fabric having a thick pile. Do not cover with fabric or other covering.

  Anything that blocks ventilation will cause internal temperature to rise, which may lead to breakdown or fire hazard.

IMPORTANT

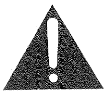


The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

FEATURES

☐ DOLBY DIGITAL

By playing back Dolby Digital-compatible LD and DVD software, the dynamic effects of movie theaters and concert halls can be easily enjoyed at home.

☐ DOLBY PRO LOGIC COMPATIBLE

Best suited for playing back movies and music by reproducing surround effects.

☐ 60 W 5 ch EQUAL POWER DISCRETE AMPLIFIER

5 ch equal power discrete amplifier which plays back the high quality effects of Dolby Digital.

☐ CONTROL OF OTHER MANUFACTURER'S EQUIPMENT USING THE MULTI CONTROL REMOTE CONTROL UNIT [Intelligent System Control]

Can be used to operate other manufacturers' products with the multi control remote control unit by presetting and learning functions.

☐ VARIOUS SURROUND EFFECTS (DSP)

Reproduces five different surround effects.

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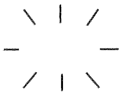
READING THIS MANUAL

■Meaning of Marks

Provides detailed precautions and advice on operations, etc.

Indicates that buttons or displays are blinking.



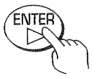
Indicates that buttons or displays are lit.

Indicates that display changes automatically.

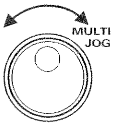
Indicates that displays alternate.

■Meaning of Illustrations

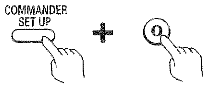
The following describes illustrations on pressing buttons.



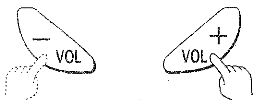
Means to press the ENTER button (of the remote control unit).



Means to rotate (adjust) the MULTI JOG.



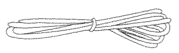
Means to press the 0 button (of the remote control unit) while pressing the COMMANDER SET UP button (of the remote control unit).



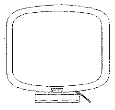
Means to press the VOL – button (of the remote control unit) or VOL + button (of the remote control unit).

1. BEFORE USE

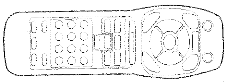
CHECKING ACCESSORIES



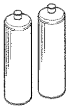
FM antenna



AM loop antenna



Remote control unit

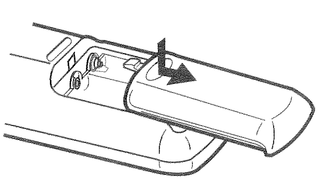


Alkaline dry cell battery
(size "AA" IEC LR6) x 2

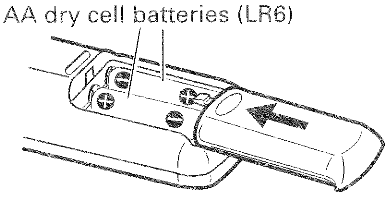
REMOTE CONTROL UNIT

Loading remote control batteries

1.



2.

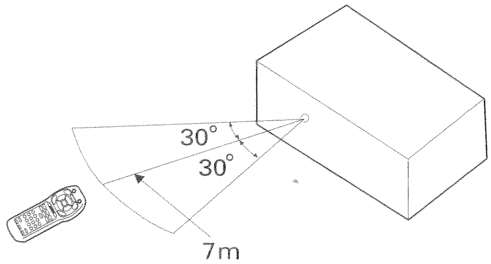


CAUTIONS

Incorrect use of batteries may result in such hazards as leakage and bursting. Observe the following precautions.

- Never use new and old batteries together.
- Insert the plus and minus sides of the batteries properly according to the marks in the battery case.
- Batteries with the same shape may have different voltages. Do not use different batteries together.

Operating range of remote control unit



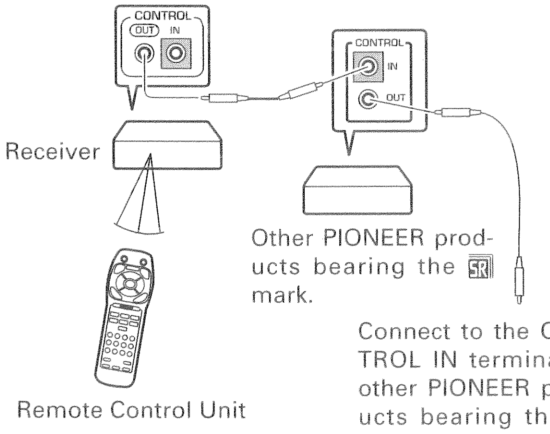
memo

- The remote control unit may not work if there is an obstacle between the remote control unit and this unit, or if the remote control unit is not directed towards the remote sensor of the main unit at the correct angle.
- The remote control unit may not work properly if strong light such as direct sunlight or fluorescent light is shining onto the main unit's remote sensor.
- The remote control unit may not work properly when this unit is used near devices emitting infrared rays, or when remote control units of other devices which use infrared rays are used.
  On the other hand, the use of this remote control unit may cause other devices to work improperly.
- When the operating range of this remote control unit becomes too short, replace the batteries.

Operating the remote control unit

By connecting a control cord (optional), other PIONEER products can be operated using this remote control unit via this unit. Direct the remote control unit towards the remote sensor of this unit.

The remote control signals are received by the remote sensor of this unit, and sent to the other devices via the CONTROL OUT terminal. By reading other manufacturers' preset codes or memorizing (learning) the remote control signals of other devices in this remote control unit, other manufacturers' can also be operated using this remote control unit.



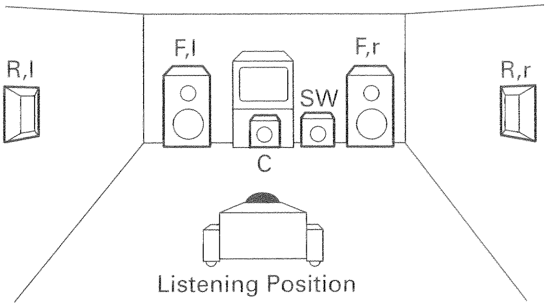
Connect to the CONTROL IN terminal of other PIONEER products bearing the SR mark.

INSTALLATION

Installing speakers

To achieve the best surround effects, install speakers as shown in the following figure.

Installation Example



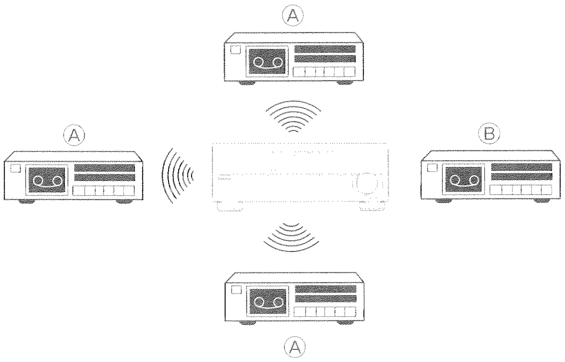
* In the above figure, F indicates front speakers, R indicates rear speakers, C indicates center speaker, SW indicates sub woofer, r indicates right, and l indicates left.

memo

- If installing the rear speakers far away from the front and center speakers, surround effects cannot be fully achieved.
- Installing speakers near the TV may cause interference such as the TV color to change. In such cases, use magnetically shielded speakers or install the speakers away from the TV.
- Install the left and right speakers at equal distance from the TV.
- Install the center speaker at the top, bottom, or behind the TV so that TV sound and images match.
- It is recommended to install the rear speakers slightly above ear level.

Installing the cassette deck

Installing the cassette deck in the following (A) positions in the figure may affect playback. It is recommended that it be installed in the (B) position.

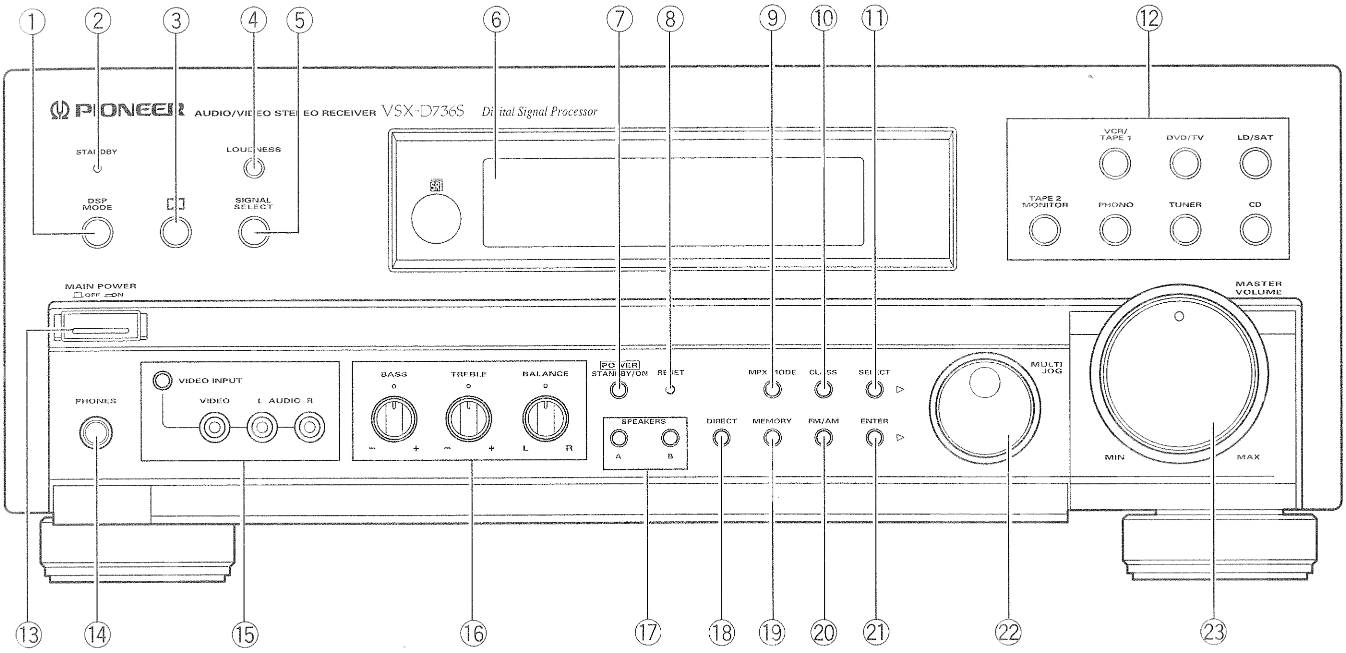


2. NAMES AND CONNECTIONS OF PARTS

NAMES OF PARTS

* The size of characters shown in the figure may differ from that on the actual product.

Front panel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PIONEER
AUDIO/VIDEO STEREO RECEIVER VSX-D736S
Digital Signal Processor
STANDBY
LOUDNESS
DSP MODE
DD
SIGNAL SELECT
SR
VCR/ TAPE 1
DVD/TV
LD/SAT
TAPE 2 MONITOR
PHONO
TUNER
CD
MAIN POWER
□ OFF ▭ ON
MASTER VOLUME
PHONES
VIDEO INPUT
VIDEO
L AUDIO R
BASS
TREBLE
BALANCE
– +
– +
L R
POWER STANDBY/ON
RESET
SPEAKERS
A
B
MPX MODE
CLASS
SELECT ▷
DIRECT
MEMORY
FM/AM
ENTER ▷
MULTI JOG
MIN
MAX
⑬
⑭
⑮
⑯
⑰
⑱
⑲
⑳
㉑
㉒
㉓

① **DSP MODE button (P.33)**

② **STANDBY indicator**

③ **DD button (P.33)**

④ **LOUDNESS button**
Press this button when the volume is low to raise the low and high range levels so that the sound can be heard more easily.

⑤ **SIGNAL SELECT button (P.35)**

⑥ **Display**

⑦ **POWER STANDBY/ON button**

⑧ **RESET button (P.43)**

⑨ **MPX MODE button**
Use to switch the auto stereo/monaural mode for receiving FM broadcasts. When the received broadcast signal is weak, press this button to set the monaural mode.

⑩ **CLASS button (P.17)**

⑪ **SELECT button (P.16)**
Use to switch the control of the MULTI JOG between station mode and frequency mode when operating the tuner.

⑫ **Function buttons (P.16~)**

⑬ **MAIN POWER switch**

⑭ **PHONES jack (Headphone terminal)**

⑮ **VIDEO INPUT button/terminal (P.13)**
Connect to a video camera, etc.

⑯ **TONE and BALANCE controls**
Use to adjust tone and volume balance.

⑰ **SPEAKERS A, B buttons**
ON/OFF switches for the A and B speaker systems.

⑱ **DIRECT button**
Use to play back sound without going through the tone and balance control circuits. DOLBY MODE, DSP MODE and LOUDNESS also turn off.

⑲ **MEMORY button (P.17)**

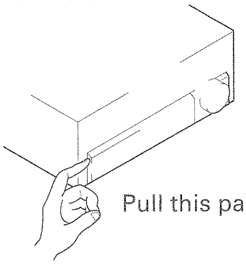
⑳ **FM/AM button (P.16)**
Use to switch the FM/AM frequency band reception.

㉑ **ENTER button (P.17)**

㉒ **MULTI JOG (P.16~)**
Use to select the frequency and station number when operating the tuner.

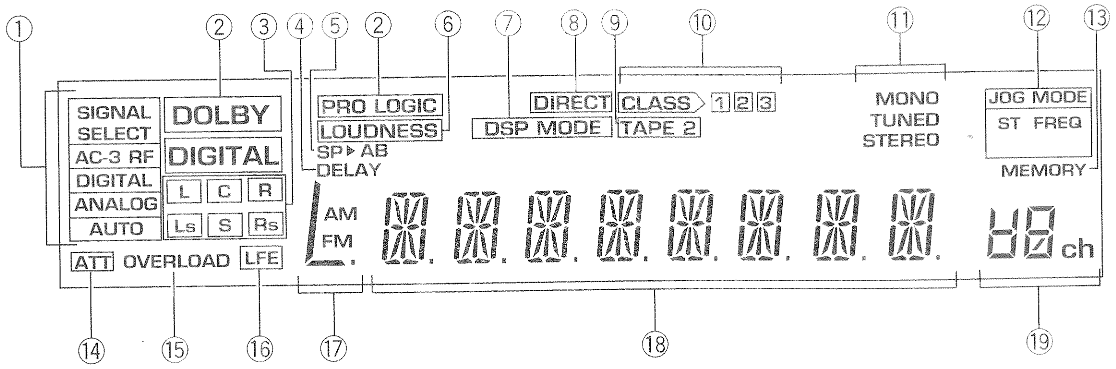
㉓ **MASTER VOLUME**

How to open the door



Pull this part toward you.

Display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SIGNAL SELECT
AC-3 RF
DIGITAL
ANALOG
AUTO
DOLBY
DIGITAL
L
C
R
Ls
S
Rs
PRO LOGIC
LOUDNESS
SP▸ AB
DELAY
DSP MODE
DIRECT
CLASS
1
2
3
TAPE 2
MONO
TUNED
STEREO
JOG MODE
ST FREQ
MEMORY
AM
FM
ch
ATT
OVERLOAD
LFE
⑭
⑮
⑯
⑰
⑱
⑲

① **SIGNAL SELECT indicators**

The input signal format currently selected will light .

② **DOLBY DIGITAL and PRO LOGIC indicators**

"DOLBY" lights when the Dolby mode is ON. There are two Dolby modes-Dolby Digital (AC-3) and Dolby Pro Logic. "DOLBY" and "DIGITAL" light during Dolby Digital, and "DOLBY" and "PRO LOGIC" light when played back in Dolby Pro Logic.

③ **PROGRAM FORMAT indicators**

When playing back in the Dolby Digital (AC-3) mode, the indicator of the channel set for the playback source lights.

④ **DELAY indicator**

Lights when the delay time is being set.

⑤ **Speakers A, B indicator**

The indicator of the speaker system (A, B) selected will light.

⑥ **LOUDNESS indicator**

Lights when LOUDNESS is ON.

⑦ **DSP MODE indicator**

Lights when DSP MODE is selected.

⑧ **DIRECT indicator**

Lights when DIRECT is ON.

⑨ **TAPE 2 indicator**

Lights when TAPE 2 MONITOR is ON.

⑩ **CLASS 1, 2, 3 indicators**

The indicator of the class number selected lights.

⑪ **TUNER indicator**

MONO:

Lights when the monaural mode is set using the MPX MODE button.

TUNED:

Lights when broadcasts are being received.

STEREO:

Lights when stereo broadcasts are received during auto stereo mode.

⑫ **JOG MODE indicator**

ST:

Lights when the station mode is selected.

FREQ:

Lights when the frequency mode is selected.

⑬ **MEMORY indicator**

Lights when station memory mode is selected.

⑭ **ATT indicator**

Lights when INPUT ATT is ON.

⑮ **OVERLOAD indicator**

Lights when input level is excessive when ANALOG is selected (including AUTO) using the SIGNAL SELECT button.

⑯ **LFE indicator**

[LFE] lights when the LFE (Low Frequency Effects) channel is set for the playback source with Dolby Digital. The LFE indicator also lights when LFE signals are input.

⑰ **AM/FM indicators**

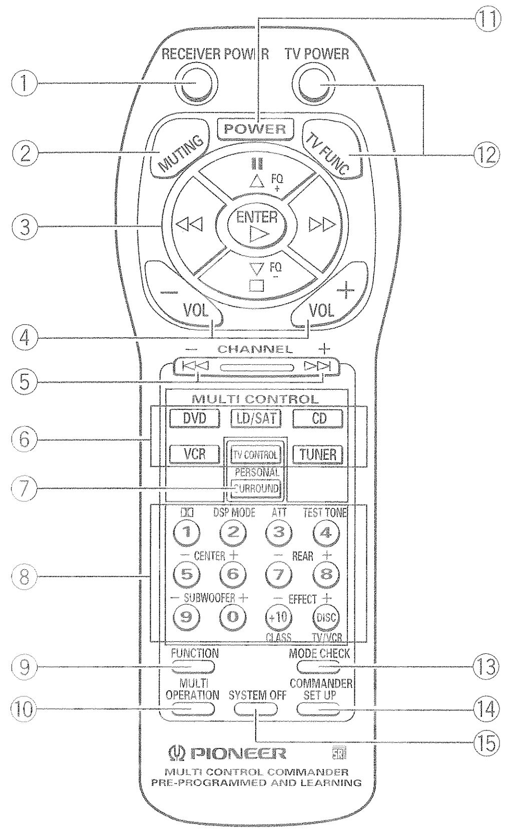
The indicator of the band currently selected (AM/FM) lights.

⑱ **CHARACTER display**

⑲ **STATION display**

Indicates the station number currently selected.

Remote control unit


RECEIVER POWER
TV POWER
POWER
MUTING
TV FUNC
II
△ FQ +
◁◁
ENTER ▷
▷▷
▽ FQ −
□
− VOL
VOL +
− CHANNEL +
|◁◁
▷▷|
MULTI CONTROL
DVD
LD/SAT
CD
VCR
TV CONTROL
TUNER
PERSONAL SURROUND
DD
DSP MODE
ATT
TEST TONE
1
2
3
4
− CENTER +
− REAR +
5
6
7
8
− SUBWOOFER +
− EFFECT +
9
0
+10
DISC
CLASS
TV/VCR
FUNCTION
MODE CHECK
MULTI OPERATION
SYSTEM OFF
COMMANDER SET UP
PIONEER
MULTI CONTROL COMMANDER
PRE-PROGRAMMED AND LEARNING
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬
⑭
⑮

① RECEIVER POWER button

② MUTING button

Press to mute the volume.

③ [When set to SURROUND (OPERATIONS)]

△,▽,◁◁,▷▷ (Select/Adjust), ENTER buttons

[When set to other than SURROUND (OPERATIONS)]

❚❚(Pause), □ (Stop), ◁◁(Rewind), ▷▷(Fast Forward), ▷ (Play) buttons

[Tuner Operations]

△,▽ (FREQ +, −), ▷ (FM/AM) buttons

④ VOL (−, +) buttons

⑤ [TV Operations]

Selects the TV broadcast channel.

[Tuner Operations]

Selects the Tuner station.

[CD, LD, DVD operations]

|◁◁, ▷▷| (Chapter/Track Search) buttons

[VCR Operations]

Changes the channels of the TV tuner in the VCR.

⑥ MULTI CONTROL function buttons

Used to set and operate the MULTI CONTROL, and switch the function.
TV CONTROL: Press to operate TV.

⑦ SURROUND/PERSONAL button

[When setting MULTI operations]

Press when setting to the personal mode using multi operations.

[When setting to other than multi operation]

Press when performing surround operations and setting/changing setting modes.

⑧ Number/surround setting buttons

[When setting surround (operations)]

DD : Turns the Dolby Mode ON/OFF.
DSP MODE: Switches the surround effects.
ATT: When turned ON when the sound is unstable due to excessive input levels, the input signal level drops so that the sound becomes easier to listen to. When connecting a LD player or DVD player with the AC-3 RF-IN terminal or AC-3/PCM DIGITAL IN terminal, the inputted sound signal is not effective.
TEST TONE: When turned ON (while in surround mode), volume balance adjustment signals are output in order from the speakers and can be adjusted.
CENTER −, +: Adjusts the center level.
REAR −, +: Adjusts the rear level.
SUB WOOFER −, +: Adjusts the sub woofer level.
EFFECT −, +: Adjusts DSP effects.

[Tuner Operations]

Number buttons: Use for setting the frequency value when the station call is selected or during direct access.
CLASS: Switches the CLASS number.
DISC: Use to set the direct access mode.

[VCR operations]

Number buttons: Used for selecting the channel of the TV tuner in the VCR.
TV/VCR: Switches between TV/VCR.

[CD Operations]

DISC: Use to select the DISC number.

⑨ FUNCTION button

Switches the function.

⑩ MULTI OPERATION button

Use to set the multi operation.

⑪ POWER button

Turns ON/OFF the power of devices other than this unit.

⑫ TV buttons (P.24)

⑬ MODE CHECK button (P.24)

⑭ COMMANDER SET UP button

Use to control and learn operations of other manufacturer's equipment, and set multi operation functions.

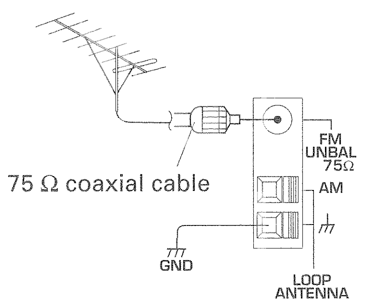
⑮ SYSTEM OFF button (P.32)

Use to turn OFF the power of all equipment connected to the main unit.

CONNECTING DEVICES

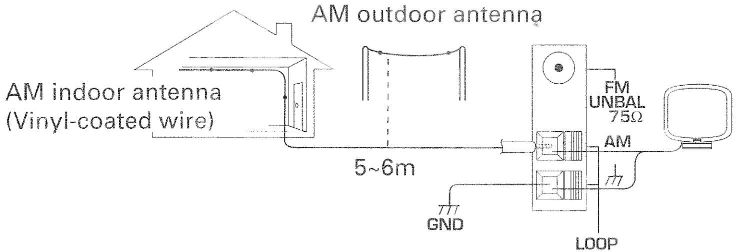
Before making or changing the connections, switch off the power switch and disconnect the power cord from the AC outlet.

■ For better reception of signals, use an FM external antenna.


75 Ω coaxial cable
FM UNBAL 75Ω
AM
GND
LOOP ANTENNA

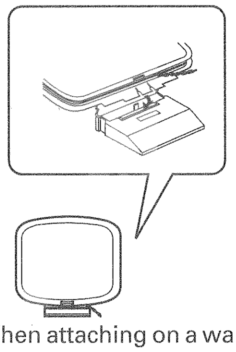
■ When AM broadcast reception is poor

Connect a 5 to 6 meter long vinyl-coated wire to the AM antenna terminal. If possible draw horizontally outdoors to achieve better reception.

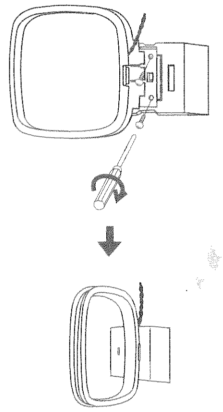

AM outdoor antenna
AM indoor antenna
(Vinyl-coated wire)
5~6m
GND
FM UNBAL 75Ω
AM
LOOP ANTENNA

Don't detach the AM loop antenna.

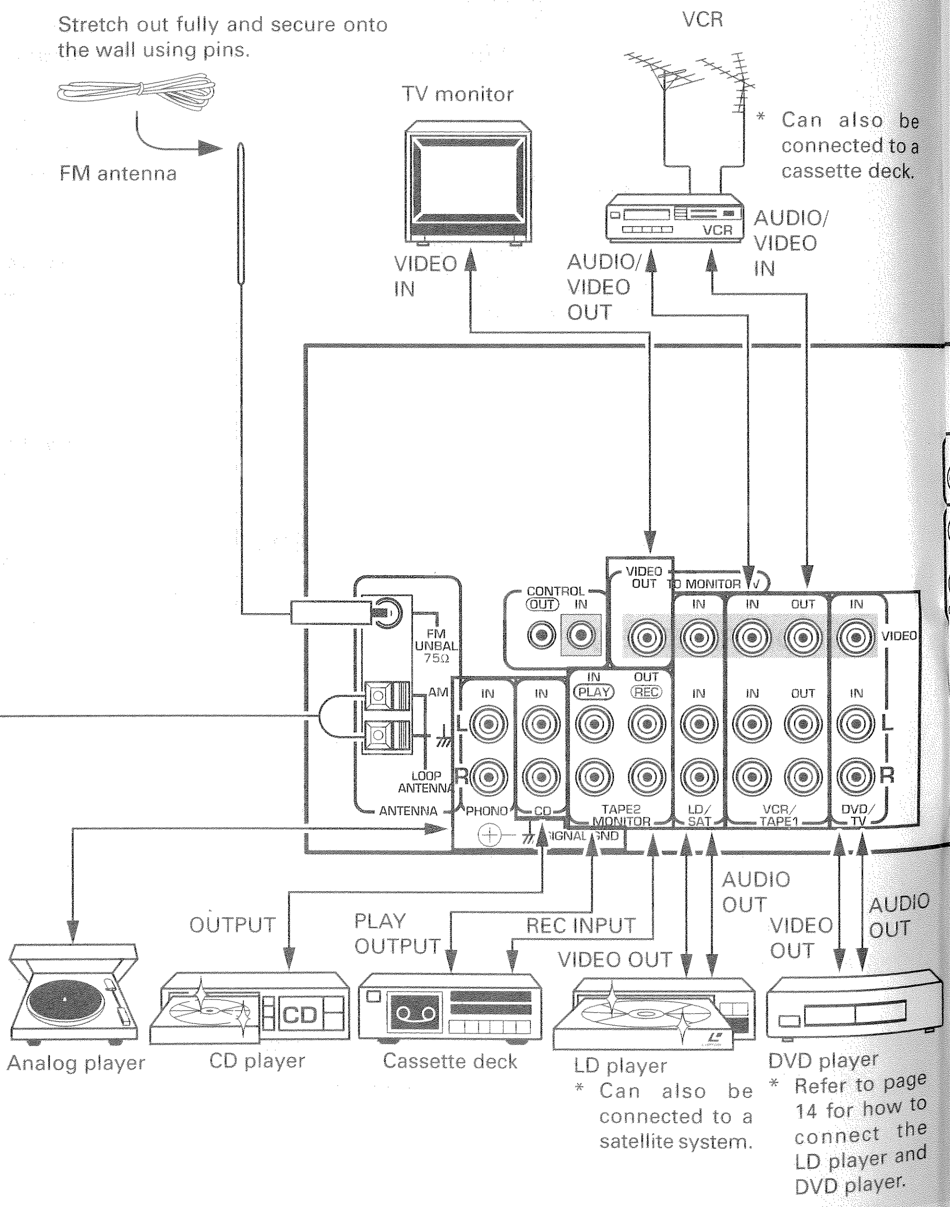
■ Assembling the AM loop antenna



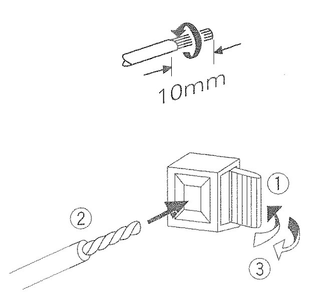
When attaching on a wall, etc.



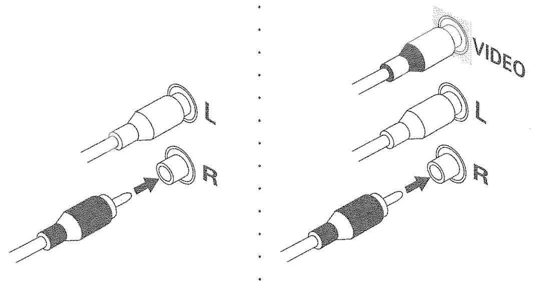
Face towards the direction with the best reception.


Stretch out fully and secure onto the wall using pins.
FM antenna
TV monitor
VIDEO IN
VCR
* Can also be connected to a cassette deck.
AUDIO/ VIDEO OUT
AUDIO/ VIDEO IN
VCR
CONTROL
OUT
IN
VIDEO OUT
TO MONITOR TV
IN
IN
OUT
IN
VIDEO
FM UNBAL 75Ω
AM
LOOP ANTENNA
ANTENNA
IN
IN
IN PLAY
OUT REC
IN
IN
OUT
IN
L
R
PHONO
CD
TAPE2 MONITOR
LD/ SAT
VCR/ TAPE1
DVD/ TV
SIGNAL GND
OUTPUT
PLAY OUTPUT
REC INPUT
VIDEO OUT
AUDIO OUT
VIDEO OUT
AUDIO OUT
CD
Analog player
CD player
Cassette deck
LD player
* Can also be connected to a satellite system.
DVD player
* Refer to page 14 for how to connect the LD player and DVD player.

■ AM antenna terminal

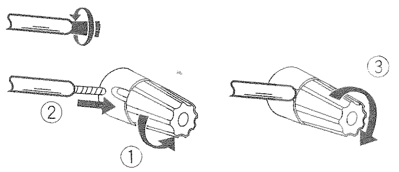


■ Input/output plugs

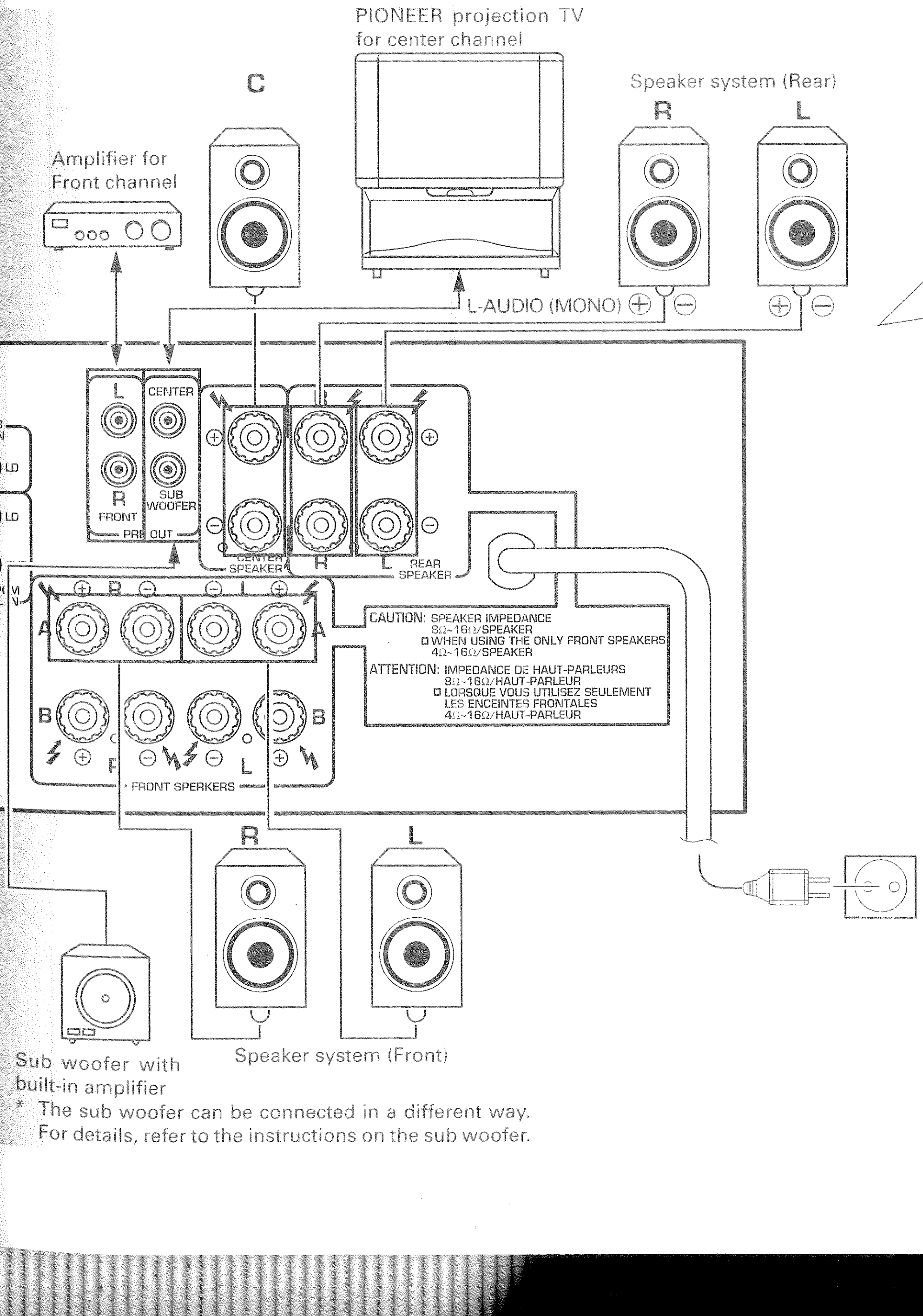


Connect the white plug to L, red plug to R, and yellow plug to VIDEO. Be sure to insert completely.

■ Speaker terminal



* The size of characters and terminal positions in the figures may differ from those on the actual product.

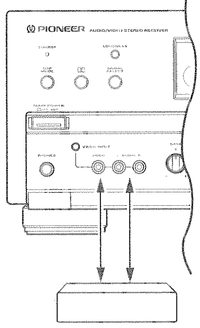

PIONEER projection TV for center channel
C
Speaker system (Rear)
R
L
Amplifier for Front channel
L-AUDIO (MONO) ⊕ ⊖
⊕ ⊖
L
CENTER
R
SUB WOOFER
FRONT
PRE OUT
CENTER SPEAKER
R
L
REAR SPEAKER
⊕ R ⊖ ⊖ L ⊕
A
A
B
B
FRONT SPERKERS
R
L
Sub woofer with built-in amplifier
Speaker system (Front)

CAUTION: SPEAKER IMPEDANCE 8Ω~16Ω/SPEAKER
□ WHEN USING THE ONLY FRONT SPEAKERS 4Ω~16Ω/SPEAKER

ATTENTION: IMPEDANCE DE HAUT-PARLEURS 8Ω~16Ω/HAUT-PARLEUR
□ LORSQUE VOUS UTILISEZ SEULEMENT LES ENCEINTES FRONTALES 4Ω~16Ω/HAUT-PARLEUR

* The sub woofer can be connected in a different way.
For details, refer to the instructions on the sub woofer.

■ Front Panel



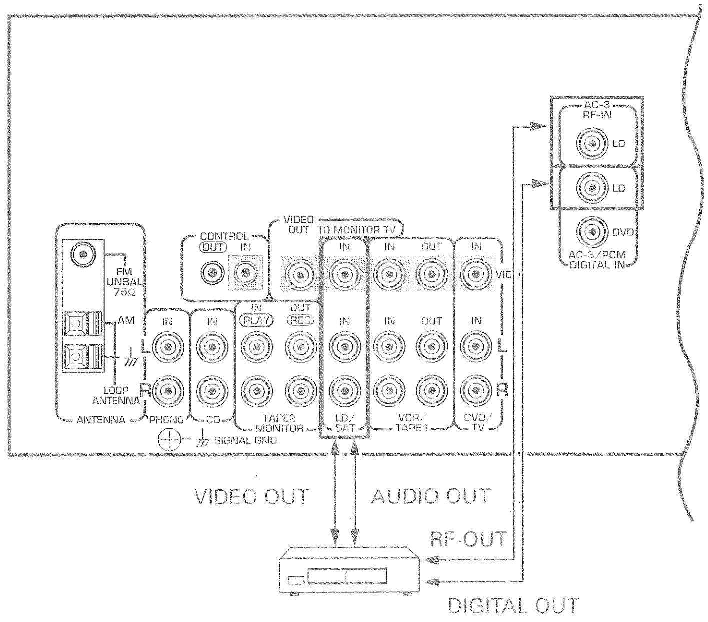
Video equipment such as video camera, etc.

memo

Use nominal impedances ranging from 8 Ω to 16 Ω for the speaker system.
When using the only front speakers, use nominal impedances ranging from 4 Ω to 16 Ω.

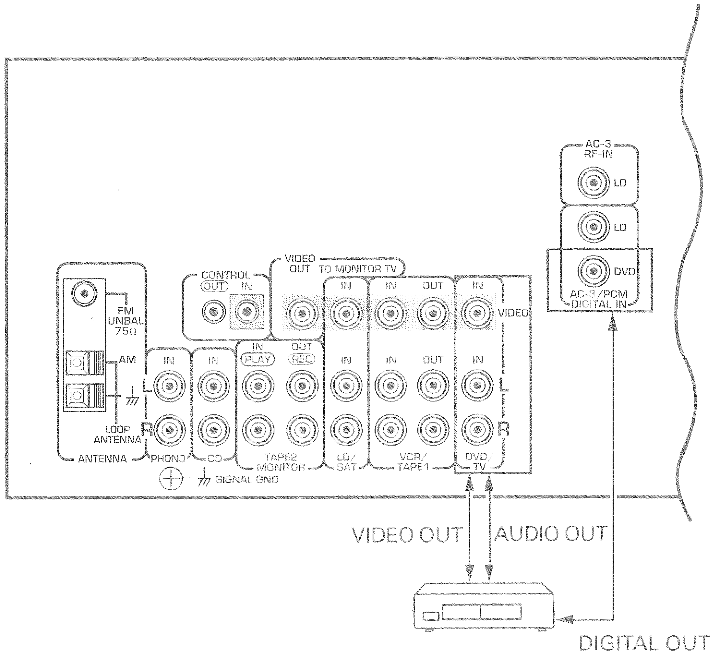
Connecting the DVD LD player, LD player

Connect the DVD LD player or LD player with AC-3 RF OUT as shown below.


AC-3
RF-IN
LD
LD
DVD
AC-3/PCM
DIGITAL IN
FM
UNBAL
75Ω
AM
LOOP
ANTENNA
ANTENNA
CONTROL
OUT
IN
VIDEO
OUT
TO MONITOR TV
IN
IN
OUT
IN
VIDEO
IN
IN
IN
PLAY
OUT
REC
IN
IN
OUT
IN
L
R
PHONO
CD
TAPE2
MONITOR
LD/
SAT
VCR/
TAPE1
DVD/
TV
SIGNAL GND
VIDEO OUT
AUDIO OUT
RF-OUT
DIGITAL OUT

Connecting DVD player

Connect the DVD player as shown below.

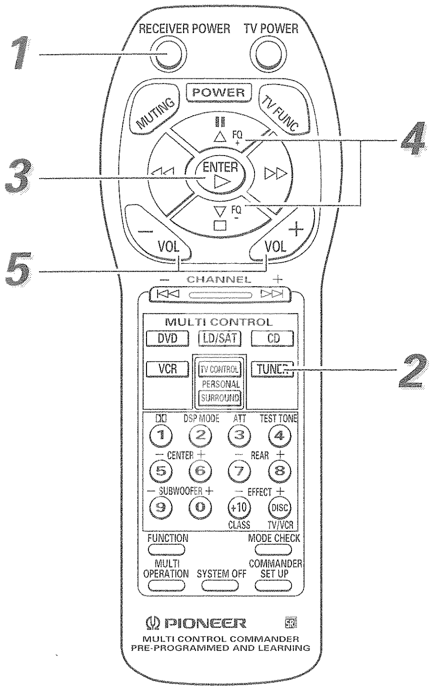

AC-3
RF-IN
LD
LD
DVD
AC-3/PCM
DIGITAL IN
FM
UNBAL
75Ω
AM
LOOP
ANTENNA
ANTENNA
CONTROL
OUT
IN
VIDEO
OUT
TO MONITOR TV
IN
IN
OUT
IN
VIDEO
IN
IN
IN
PLAY
OUT
REC
IN
IN
OUT
IN
L
R
PHONO
CD
TAPE2
MONITOR
LD/
SAT
VCR/
TAPE1
DVD/
TV
SIGNAL GND
VIDEO OUT
AUDIO OUT
DIGITAL OUT

3. BASIC OPERATIONS

Turn ON the MAIN POWER button of this unit.

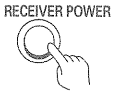
LISTENING TO FM/AM BROADCASTS

memo Turn OFF TAPE 2 MONITOR (the Indicator goes off).

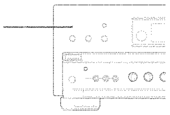


1
3
5
4
2
RECEIVER POWER
TV POWER
POWER
MUTING
TV FUNC
ENTER
VOL
CHANNEL
MULTI CONTROL
DVD
LD/SAT
CD
VCR
TUNER
PIONEER
MULTI CONTROL COMMANDER
PRE-PROGRAMMED AND LEARNING

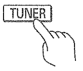
1. **Turn ON the power of the receiver.**


RECEIVER POWER

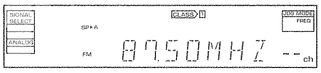
➡ STANDBY indicator goes off.



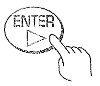
2. **Set the TUNER function.**



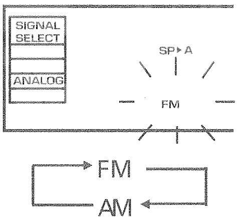
➡



3. **Select the band (FM or AM).**

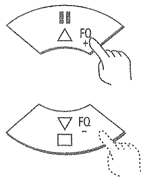


➡



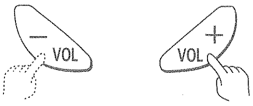
SIGNAL SELECT
ANALOG
SP▶A
FM
FM
AM

4. **Select the broadcast station.**



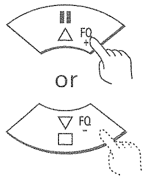
➡ Refer to "Selecting broadcast stations" below.

5. **Adjust the volume.**



Selecting broadcast stations

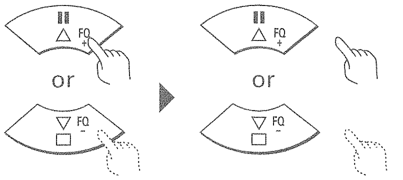
① Selecting step by step



Press lightly and release.

87,50
87,55
87,60
⋮

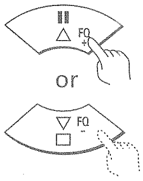
② Selecting automatically



(Press and hold for approx. 1 second, then release.)

87,50
↓
89,50
Stops when received.

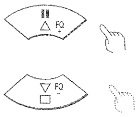
③ Selecting at high speed



Press continuously.

87,50
87,55
⋮
89,50

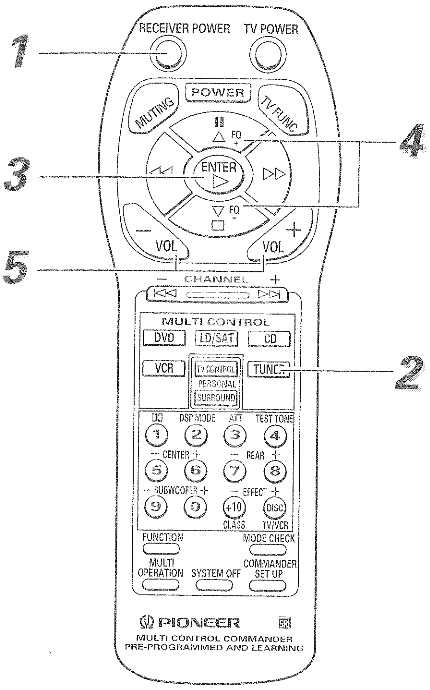
Stops when released.



3. BASIC OPERATIONS

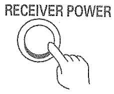
Turn ON the MAIN POWER button of this unit.

LISTENING TO FM/AM BROADCASTS

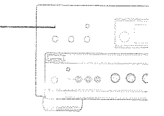

1
3
5
4
2
RECEIVER POWER
TV POWER
POWER
MUTING
TV FUNC
ENTER
FQ
VOL
CHANNEL
MULTI CONTROL
DVD
LD/SAT
CD
VCR
TV CONTROL
PERSONAL
SURROUND
TUNER
DSP MODE
ATT
TEST TONE
CENTER
REAR
SUBWOOFER
EFFECT
CLASS
TV/VCR
DISC
FUNCTION
MODE CHECK
MULTI OPERATION
SYSTEM OFF
COMMANDER SET UP
PIONEER
MULTI CONTROL COMMANDER
PRE-PROGRAMMED AND LEARNING

memo Turn OFF TAPE 2 MONITOR (the Indicator goes off).

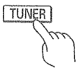
1. Turn ON the power of the receiver.


RECEIVER POWER

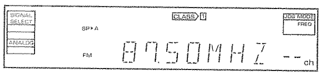
➡ STANDBY indicator goes off.



2. Set the TUNER function.

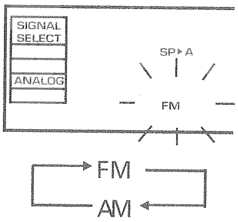


➡

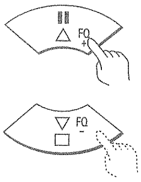

SIGNAL SELECT
ANALOG
CLASS
SP▸A
FM
87.50MHZ
ch

3. Select the band (FM or AM).

➡

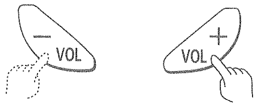

SIGNAL SELECT
ANALOG
SP▸A
FM
FM
AM

4. Select the broadcast station.



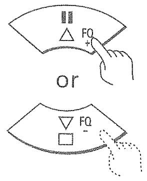
➡ Refer to "Selecting broadcast stations" below.

5. Adjust the volume.



Selecting broadcast stations

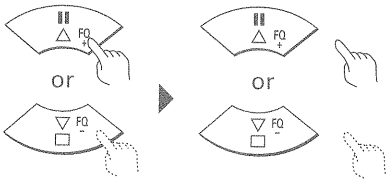
① Selecting step by step



Press lightly and release.

87,50
87,55
87,60
⋮

② Selecting automatically

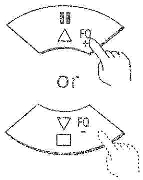


(Press and hold for approx. 1 second, then release.)

87,50
↓
89,50

Stops when received.

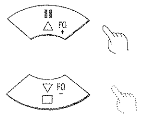
③ Selecting at high speed

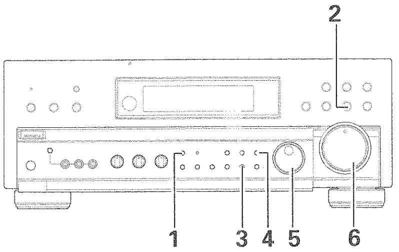


Press continuously.

87,50
87,55
⋮
89,50

Stops when released.





Selecting a broadcast station using this unit

1. **Press the POWER button.**
2. **Set the TUNER function.**
3. **Press the FM/AM button and select FM or AM broadcast.**
4. **Press the SELECT button, to set the frequency mode.**
   FREQ indicator lights.
5. **Rotate the MULTI-JOG and adjust to the desired broadcast station.**
   The TUNED indicator lights up when a broadcast program is received.
6. **Adjust the volume.**

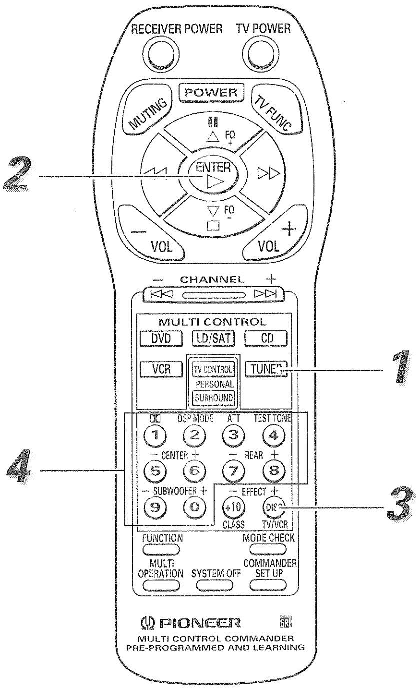
memo

- The TUNED indicator will not light when a broadcast station is too far away or when the broadcasting signal is weak.
- The MULTI JOG cannot be used in "■Selecting the broadcast station (② Selecting automatically)" on page 15.

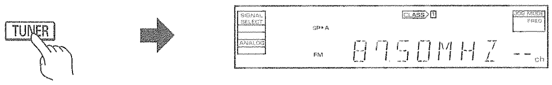
Directly inputting the frequency [Direct Access (remote control unit only)]

A broadcast station (frequency) can be directly selected using the number buttons on the remote control unit.

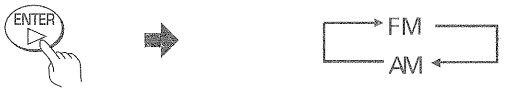
memo Turn OFF the TAPE 2 MONITOR (the indicator goes off).


RECEIVER POWER
TV POWER
POWER
MUTING
TV FUNC
ENTER
FQ
VOL
CHANNEL
MULTI CONTROL
DVD
LD/SAT
CD
VCR
TV CONTROL
PERSONAL SURROUND
TUNER
DSP MODE
ATT
TEST TONE
1
2
3
4
CENTER
REAR
5
6
7
8
SUBWOOFER
EFFECT
9
0
+10
DISC
CLASS
TV/VCR
FUNCTION
MODE CHECK
MULTI OPERATION
SYSTEM OFF
COMMANDER SET UP
PIONEER
MULTI CONTROL COMMANDER PRE-PROGRAMMED AND LEARNING
2
4
1
3

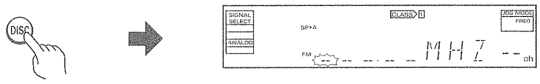
1. Set the TUNER function.


TUNER
8750MHZ

2. Select the band (FM or AM).



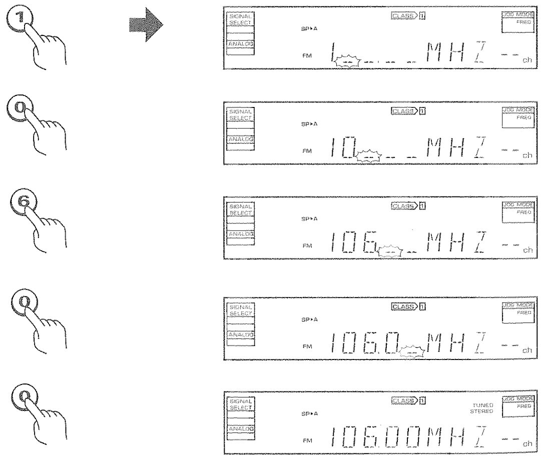
3. Set the direct access mode.



4. Select the broadcast station.

Press the numbers of the frequency to be received in order.

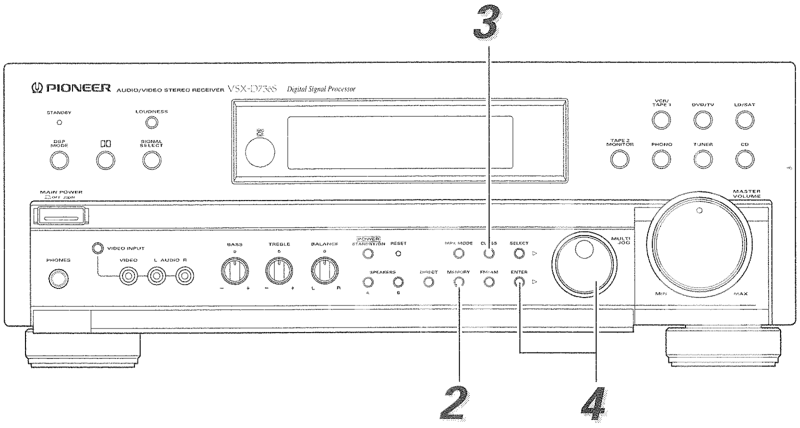
For example, to receive FM 106,00 MHz.


1
1 MHZ
0
10 MHZ
6
106 MHZ
0
1060 MHZ
0
10600MHZ

Canceling the frequency input

The frequency input can be canceled by pressing the DISC button again. Input the frequency again correctly.

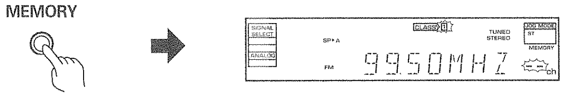
Memorizing frequently used stations (main unit only)


PIONEER
3
2
4

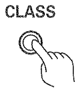
memo
- The frequency received, MPX MODE (FM only) can be memorized.
- Up to 10 stations can be memorized in each of three classes.

1. **Receive the desired station.** ➡ Refer to "Listening to FM/AM Broadcasts" (Pages 15 and 16).

2. **Set the MEMORY mode.**

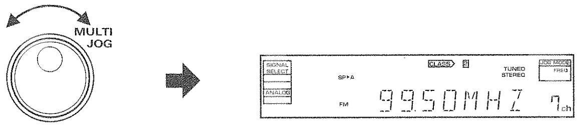

MEMORY
SIGNAL SELECT
ANALOG
SP▸A
FM
TUNED STEREO
JOG MODE
ST
MEMORY
99.50MHZ
ch

3. **Select the desired class number.**



➡ CLASS 1 → CLASS 2 → CLASS 3 →

4. **Select the desired station number.**

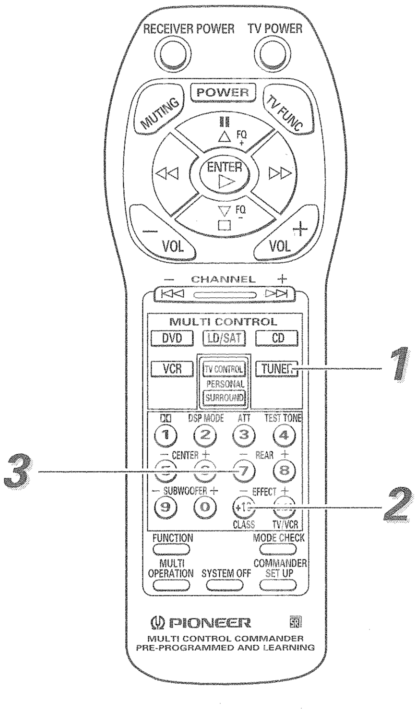

MULTI JOG
SIGNAL SELECT
ANALOG
SP▸A
FM
TUNED STEREO
JOG MODE
FREQ
99.50MHZ
1ch

Rotate the MULTI JOG to select the station number and press the ENTER button to memorize the selection. (Even if ENTER is not pressed, the selection will be automatically memorized in 5 seconds.)

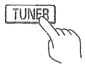
→CLASS 1(1 ⟷ 10ch) ⟷ CLASS 2(1 ⟷ 10ch) → CLASS 3(1 ⟷ 10ch) →

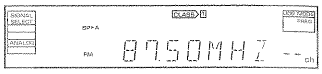
Repeat steps 1 to 4 to memorize up to 30 stations.

Listening to Memorized Stations

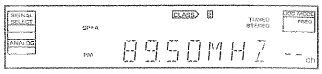

RECEIVER POWER
TV POWER
POWER
MUTING
TV FUNC
ENTER
VOL
CHANNEL
MULTI CONTROL
DVD
LD/SAT
CD
VCR
TV CONTROL
PERSONAL
SURROUND
TUNER
DSP MODE
ATT
TEST TONE
CENTER
REAR
SUBWOOFER
EFFECT
CLASS
TV/VCR
FUNCTION
MODE CHECK
MULTI OPERATION
SYSTEM OFF
COMMANDER SET UP
PIONEER
MULTI CONTROL COMMANDER
PRE-PROGRAMMED AND LEARNING
1
2
3

1. **Set the TUNER function.**



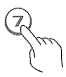

SIGNAL SELECT
ANALOG
CLASS 1
FM
87.50MHz
--ch

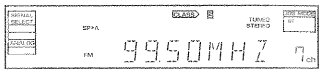
2. **Select the CLASS number in which the desired station is memorized.**


SIGNAL SELECT
ANALOG
CLASS 2
TUNED STEREO
FM
89.50MHz
--ch

CLASS 1 → CLASS 2 → CLASS 3

3. **Select the station number of the desired station.**

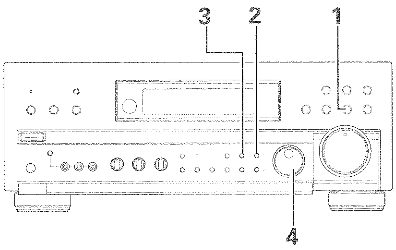



SIGNAL SELECT
ANALOG
CLASS 2
TUNED STEREO
FM
99.50MHz
7ch

Example:
When FM99,50 MHz has been memorized in channel 7 of CLASS 2.

memo

Use the CHANNEL +/– buttons to select other memorized station numbers.



■ Operating with the main unit

1. **Press the TUNER button.**
2. **Press the SELECT button to set the station mode.**
   The ST indicator lights.
3. **Press the CLASS button, and select the CLASS number in which the desired station has been memorized.**
4. **Rotate the MULTI-JOG, and select the desired station number which has been memorized.**

memo

When the power cord of the unit is disconnected from the wall outlet or the main power switch is turned off for several days, the stations memorized will be erased.

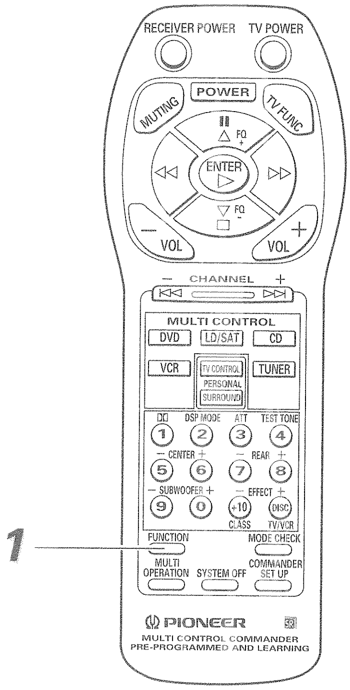
■ Last Station Memory

By turning ON the power and setting TUNER, the station set before the power was turned OFF will be received.

RECORDING

Set the format of the input signal to "ANALOG" referring to "Switching the Input Signal" on page 35.

Recording with TAPE 1 or TAPE 2

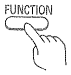

RECEIVER POWER
TV POWER
POWER
MUTING
TV FUNC
FQ
ENTER
VOL
CHANNEL
MULTI CONTROL
DVD
LD/SAT
CD
VCR
TV CONTROL
PERSONAL SURROUND
TUNER
DSP MODE
ATT
TEST TONE
CENTER
REAR
SUBWOOFER
EFFECT
CLASS
TV/VCR
FUNCTION
MODE CHECK
MULTI OPERATION
SYSTEM OFF
COMMANDER SET UP
PIONEER
MULTI CONTROL COMMANDER PRE-PROGRAMMED AND LEARNING
1

memo

Turn ON the power of all equipment to be used.

1. **Select the source to be recorded.**

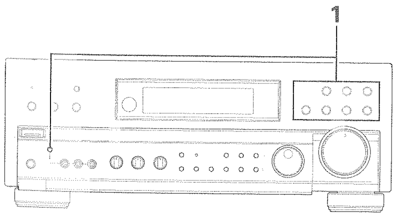
* Except for PHONO and VIDEO, the sources can directly be selected using MULTI CONTROL.



→ TUNER → PHONO → VIDEO →
CD ← LD/SAT ← DVD/TV ← VCR/TAPE 1 ←

2. **Start recording with TAPE 1 or TAPE 2.**

3. **Play back the source to be recorded.**



■ Operating with the main unit

1. Select the source to be recorded using the Function buttons.
2. Start recording with TAPE 1 or TAPE 2.
3. Play back the source to be recorded.

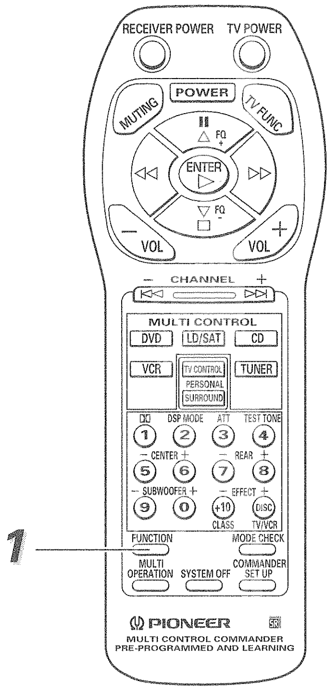
memo

- The VCR/TAPE 1 sounds cannot be recorded with TAPE 1.
- The volume, tone, balance, and surround setting of this unit have no effect on the recording signal.

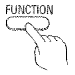
■ Recording Monitor

When recording with TAPE 2, if the recording device connected has a recording monitor function, turning ON the TAPE 2 MONITOR button will enable recording to be carried out simultaneously with playback monitoring (the TAPE 2 indicator lights).

Recording with a VCR


RECEIVER POWER
TV POWER
POWER
MUTING
TV FUNC
ENTER
FQ
VOL
CHANNEL
MULTI CONTROL
DVD
LD/SAT
CD
VCR
TV CONTROL
PERSONAL SURROUND
TUNER
DSP MODE
ATT
TEST TONE
CENTER
REAR
SUBWOOFER
EFFECT
+10
DISC
CLASS
TV/VCR
FUNCTION
MODE CHECK
MULTI OPERATION
SYSTEM OFF
COMMANDER SET UP
PIONEER
MULTI CONTROL COMMANDER
PRE-PROGRAMMED AND LEARNING
1

1. **Select the source to be recorded.**



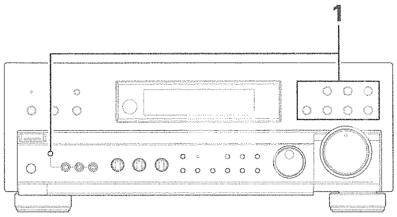
➡ → (TUNER) → (PHONO) → VIDEO → (VCR/TAPE 1) → DVD/TV → LD/SAT → (CD)

2. **Start recording with a VCR.**

3. **Play back the source to be recorded.**

memo

The signal from VCR/TAPE 1 cannot be recorded.



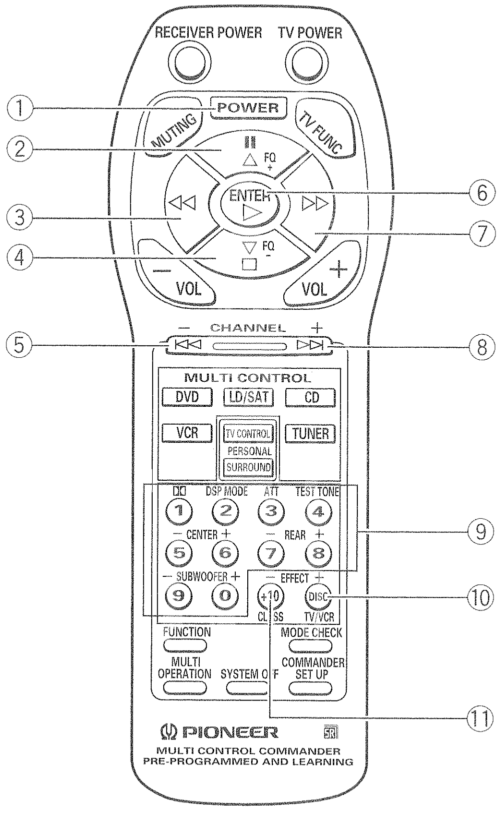
■ Operating with the main unit

1. **Select the source to be recorded using the Function buttons.**
2. **Start recording with a VCR.**
3. **Play back the source to be recorded.**

memo

The volume, tone, balance, and surround setting of this unit have no effect on the recording signal.

OPERATING OTHER COMPONENTS


RECEIVER POWER
TV POWER
POWER
MUTING
TV FUNC
FQ +
ENTER
FQ -
VOL
VOL
CHANNEL
MULTI CONTROL
DVD
LD/SAT
CD
VCR
TV CONTROL
PERSONAL SURROUND
TUNER
DSP MODE
ATT
TEST TONE
1
2
3
4
CENTER
REAR
5
6
7
8
SUBWOOFER
EFFECT
9
0
+10
DISC
CLASS
TV/VCR
FUNCTION
MODE CHECK
MULTI OPERATION
SYSTEM OFF
COMMANDER SET UP
PIONEER
MULTI CONTROL COMMANDER
PRE-PROGRAMMED AND LEARNING
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪

When a component bearing other than PIONEER SR mark is used, refer to "Operating other equipment using this unit's remote control" (page 25) or "Memorizing other manufacturer's signals this unit's" (page 28), and perform the commander set up.

LD PLAYER/DVD PLAYER operation

Press the MODE CHECK button to light the LD/SAT button or DVD button, and operate as desired using the following buttons.

① **POWER**

Use to turn ON/OFF the LD player or DVD player.

② ❚❚

Use to pause. (In some players, pressing this button may set still pictures.)

③ ◀◀

Continuously pressing this button will set fast rewind playback.

④ ■

Pressing this button during playback will stop the unit. (With some LD players, the disc table may come out if pressed during stop.)

⑤ |◀◀

Pressing and releasing this button immediately returns playback to the beginning of the chapter (track) currently being played. Pressing it continuously returns playback to the beginning of a previous chapter (track).

⑥ ▶

Starts playback.

⑦ ▶▶

Pressing this button continuously will start fast forward playback.

⑧ ▶▶|

Pressing and releasing this button immediately advances playback to the beginning of the next chapter (track). Pressing it continuously advances playback to the beginning of a future chapter (track).

⑨ **Number buttons**

Use to select the chapter (track).

⑩ **(DISC) (SIDE A/B for LD) (MENU for DVD)**

LD: Switches between sides A and B of the disc.
DVD: Turns ON/OFF the menu screen.

⑪ (+10)

Use to select chapter (track) numbers higher than 10.
Example: Chapter (track) 34

(+10) → (+10) → (+10) → ④

SAT (Satellite Tuner) operation

Press the MODE CHECK button to light the LD/SAT button, and operate as desired using the following buttons.

① **POWER**

Use to turn ON/OFF the power of the satellite broadcast tuner.

②▲,③◀,④▼,⑦▶

Serves as cursor button for obtaining information on programs.

⑥ **ENTER**

Use to set the position of the cursor selected using the ②, ③,④, and ⑦ buttons.

⑤|◀◀, ⑧▶▶| **(GUIDE)**

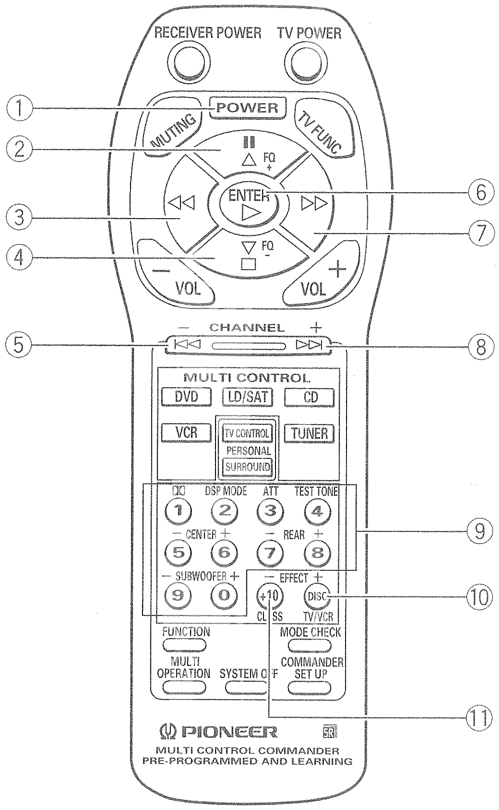
Use to turn ON/OFF the program information screen.

⑨ **Number buttons**

Use to select satellite broadcast channels.

⑩ **(DISC) (MENU)**

Use to turn ON/OFF the main menu.


RECEIVER POWER
TV POWER
POWER
MUTING
TV FUNC
FQ
ENTER
VOL
VOL
CHANNEL
MULTI CONTROL
DVD
LD/SAT
CD
VCR
TV CONTROL
PERSONAL SURROUND
TUNER
DSP MODE
ATT
TEST TONE
CENTER
REAR
SUBWOOFER
EFFECT
+10
DISC
CLASS
TV/VCR
FUNCTION
MODE CHECK
MULTI OPERATION
SYSTEM OFF
COMMANDER SET UP
PIONEER
MULTI CONTROL COMMANDER
PRE-PROGRAMMED AND LEARNING
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪

CD PLAYER operation

Press the MODE CHECK button to light the CD button, and operate as desired using the following buttons.

① POWER

Use to turn ON/OFF the CD player.

② ❚❚

Use to pause playback.

③ ◀◀

Continuously pressing this button will start fast rewind playback.

④ ■

Stops playback.

⑤ ❙◀◀

Pressing and releasing this button immediately returns playback to the beginning of the track currently being played. Pressing it continuously returns playback to the beginning of a previous track.

⑥ ▶

Starts playback.

⑦ ▶▶

Pressing this button continuously will start fast forward playback.

⑧ ▶▶❙

Pressing and releasing this button immediately advances playback to the beginning of the next track. Pressing it continuously will advances playback to the beginning of a future track.

⑨ Number buttons

Use to select songs directly.

⑩ DISC

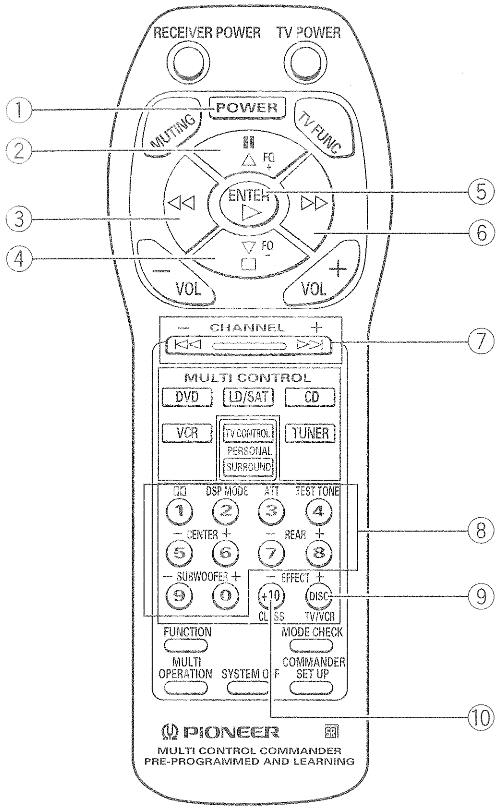
Use to select the disc number.
(Some CD players cannot be operated.)
Example:
When selecting disc number 27

② → ⑦ → (DISC)

⑪ (+10) (track) button

Use to select the track number.
(Some CD players cannot be operated.)
Example:
When selecting track number 15

(+10) → ⑤


RECEIVER POWER
TV POWER
POWER
MUTING
TV FUNC
FQ
ENTER
VOL
VOL
CHANNEL
MULTI CONTROL
DVD
LD/SAT
CD
VCR
TV CONTROL
PERSONAL
SURROUND
DSP MODE
ATT
TEST TONE
CENTER
REAR
SUBWOOFER
EFFECT
+10
DISC
CLASS
TV/VCR
FUNCTION
MODE CHECK
MULTI OPERATION
SYSTEM OFF
COMMANDER SET UP
PIONEER
MULTI CONTROL COMMANDER
PRE-PROGRAMMED AND LEARNING
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩

CASSETTE DECK/VCR operation

Press the MODE CHECK button to light VCR button, and operate as desired using the following buttons.

memo

Both the cassette deck and VCR can not be used at the same time.

[Operations common to the cassette deck/ VCR]

When operating a double cassette deck, the deck II must be operated.

① POWER

Use to turn ON/OFF the power of the cassette deck and VCR.
(Cannot turn ON/OFF some cassette decks.)

② II

Pauses playback and recording (sets still pictures).

③ ◀◀

Rewinds the tape. Pressing this button during playback will start fast rewind playback.

④ ■

Stops tape running.

⑤ ▶

Starts playback.

⑥ ▶▶

Fast forwards the tape. Pressing this button during playback will start fast forward playback.

[VCR only]

⑦ CHANNEL + , –

Changes the channels of the TV tuner in the VCR.

⑧ Number buttons

Used for selecting the channels of the TV tuner in the VCR.

⑨ TV/VCR

Used to switch the VCR antenna output to TV or VCR.

⑩ (+10) (ENTER)

Sets the channels selected using the Number buttons.
(Some models may not require this step.)

[Cassette deck only]

For double cassette decks, the ⑧ Number buttons can be used to operate deck 1 also.
(Some models cannot be operated.)

⑧ ①(◀◀)
Fast forwards the tape in the direction of the arrow.

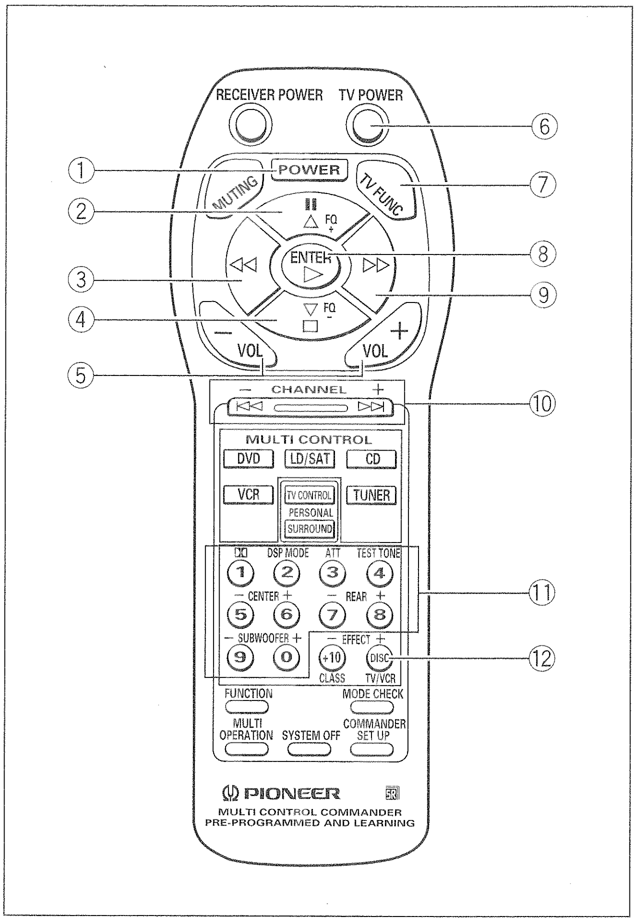
②(■)
Stops tape running.

③(▶)
Plays back.

④(▶▶)
Fast forwards the tape in the direction of the arrow.

memo

Pressing ② II and ④ ■ simultaneously will also set REC for the VCR and cassette deck.
REC cannot be set for deck 1 of double cassette decks.


RECEIVER POWER
TV POWER
POWER
MUTING
TV FUNC
FQ +
ENTER
FQ -
VOL
VOL
CHANNEL
MULTI CONTROL
DVD
LD/SAT
CD
VCR
TV CONTROL
PERSONAL SURROUND
TUNER
DSP MODE
ATT
TEST TONE
CENTER
REAR
SUBWOOFER
EFFECT
+10
DISC
CLASS
TV/VCR
FUNCTION
MODE CHECK
MULTI OPERATION
SYSTEM OFF
COMMANDER SET UP
PIONEER
MULTI CONTROL COMMANDER
PRE-PROGRAMMED AND LEARNING
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫

TV operation

Press the TV CONTROL button, and operate as desired using the following buttons.

① POWER

Use to turn ON/OFF the TV power.

② ▲

Raises the TV volume.

④ ▼

Lowers the TV volume.

⑤ VOL +, –

Use to adjust the TV volume. (When operating other devices, this is used for adjusting the volume of this unit.)

⑧ ENTER

Sets the channels selected using the Number buttons. (Some models may not require this operation.)

⑩ CHANNEL +, –

Use to select a TV broadcast channel.

⑪ Number buttons

Use to select TV broadcast channels.
Example: When selecting channel 25

② → ⑤

With to some models, press ⑧ ENTER after selecting the channel to set the selection.

[Operation for TVs with menu screen (PIONEER products only)]

②▲,③◀,④▼,⑨▶

Use to move the cursor in the menu screen up, down, left, and right.

⑧ ENTER

Sets the position of the cursor selected using the ②, ③, ④, and ⑨ buttons.

⑫ DISC (MENU)

Displays the menu screen for adjusting picture quality.

The following buttons can be used regardless of the input source setting.

⑥ TV POWER

Use to turn ON/OFF the TV power.

⑦ TV FUNC

Use to select the TV input. (Cannot be selected in some TVs.)

MODE CHECK BUTTON

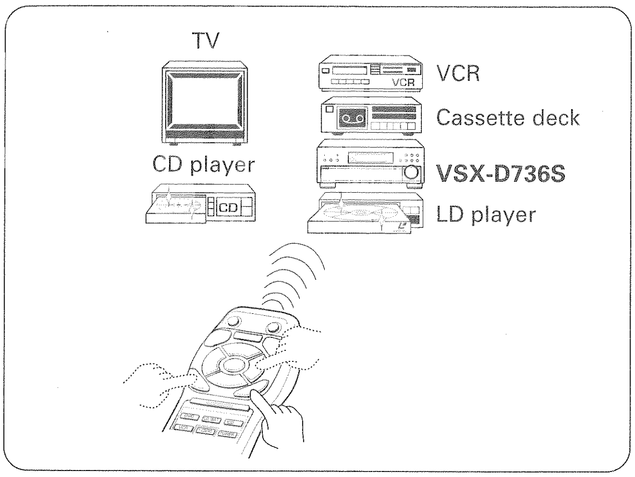
When the MODE CHECK button is pressed once, the MULTI CONTROL button currently selected will light.
When the MODE CHECK button is pressed again while lit, the MULTI CONTROL buttons will light in order, enabling the selected device to be remote controlled without changing the function of this unit.

USEFUL FUNCTIONS OF THE REMOTE CONTROL UNIT [ISC (Intelligent System Control)]

ISC is the given name for a new operating method of AV components proposed by PIONEER.
With the provided remote control unit, the following operations can easily be performed.

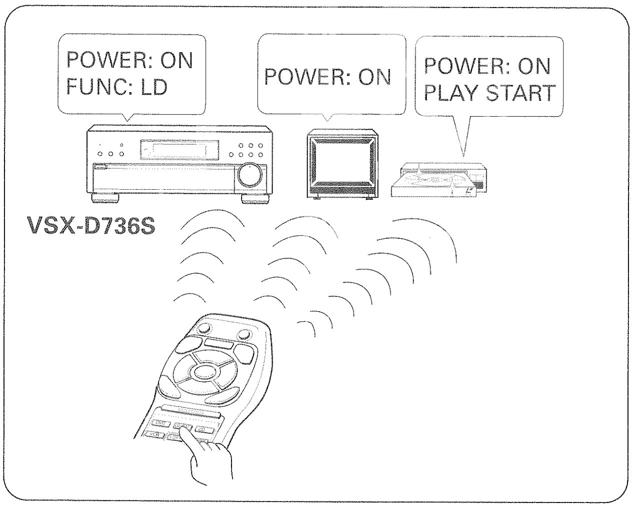
■ Control of other devices

Your PIONEER products and other manufacturer's equipment (VCR, TV, LD player, CD player, etc.) can be remote controlled. (This requires the learning and setting of the remote control codes of other manufacturer's products.)


TV
VCR
Cassette deck
CD player
VSX-D736S
LD player

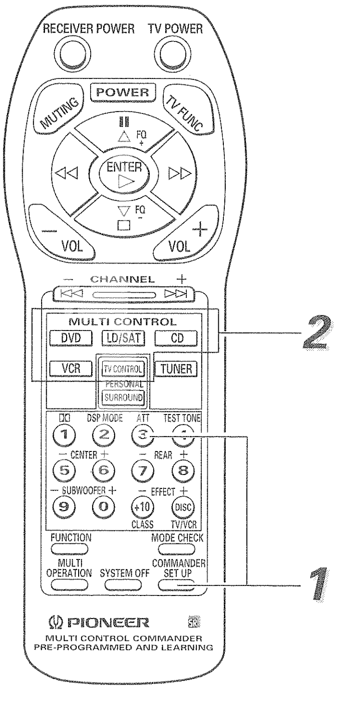
■ Multi Operation

Performing multi operation settings using this units remote control enables several devices to be operated easily.

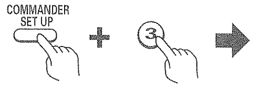

POWER: ON
FUNC: LD
POWER: ON
POWER: ON
PLAY START
VSX-D736S

Operating other equipment using this unit's remote control (controlling other equipment)

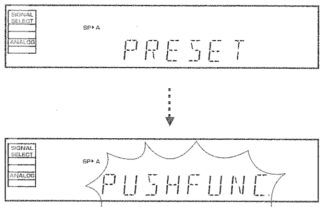
The remote control unit can be used to operate your PIONEER products and other manufacturer's audio/video equipment (VCR, TV, LD player, CD player, etc.).
Perform the following procedure to enable operation of other manufacturers' equipment.


RECEIVER POWER
TV POWER
POWER
MUTING
TV FUNC
FQ
ENTER
VOL
CHANNEL
MULTI CONTROL
DVD
LD/SAT
CD
VCR
TV CONTROL
TUNER
PERSONAL
SURROUND
DSP MODE
ATT
TEST TONE
CENTER
REAR
SUBWOOFER
EFFECT
CLASS
TV/VCR
FUNCTION
MODE CHECK
MULTI OPERATION
SYSTEM OFF
COMMANDER SET UP
PIONEER
MULTI CONTROL COMMANDER
PRE-PROGRAMMED AND LEARNING
2
1

1. Set the preset mode.

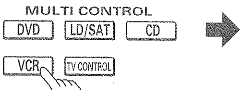

COMMANDER SET UP
+
3

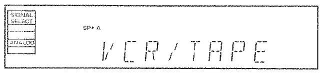
While pressing the COMMANDER SET UP button, press ③.


PRESET
PUSHFUNC

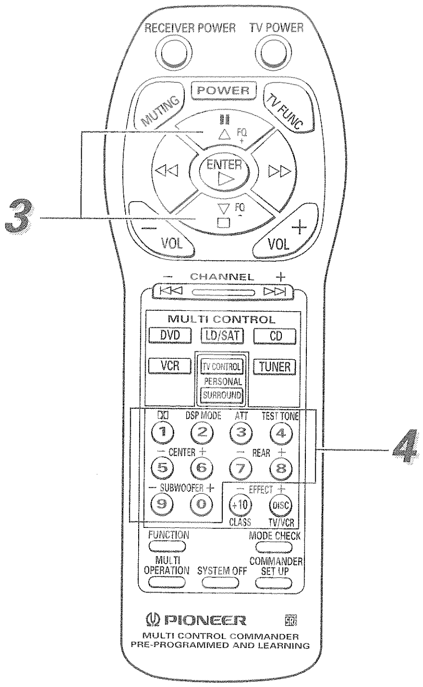
* Multi control section of the remote control unit will blink.

2. Select the function to be set.

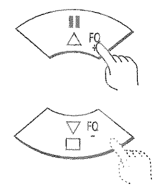

MULTI CONTROL
DVD
LD/SAT
CD
VCR
TV CONTROL



* The function button selected lights.

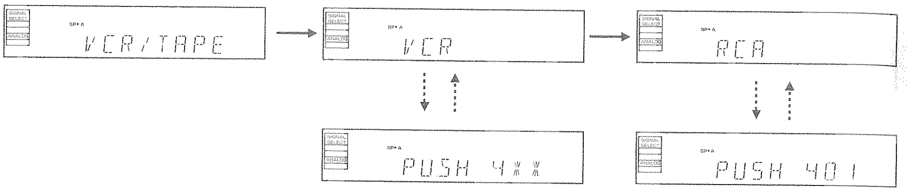

3
4
RECEIVER POWER
TV POWER
POWER
MUTING
TV FUNC
ENTER
VOL
CHANNEL
MULTI CONTROL
DVD
LD/SAT
CD
VCR
TV CONTROL
PERSONAL SURROUND
TUNER
DSP MODE
ATT
TEST TONE
CENTER
REAR
SUBWOOFER
EFFECT
CLASS
TV/VCR
FUNCTION
MODE CHECK
MULTI OPERATION
SYSTEM OFF
COMMANDER SET UP
PIONEER
MULTI CONTROL COMMANDER
PRE-PROGRAMMED AND LEARNING

3. **While observing the display, find the manufacturer name and code.**



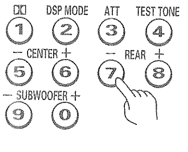
When the ▼ button is pressed, the manufacturer names are displayed in the reverse order.

Each time the button is pressed, a different preset manufacturer name will be displayed. Display the name of the manufacturer whose equipment you are using and its code will be displayed automatically.


VCR/TAPE
VCR
RCA
PUSH 4**
PUSH 401

4. **Point the remote control unit towards the device to be operated, and input the three-digit code number confirmed in step 3.**

* Refer to the LIST OF MANUFACTURER CODES on page 45.

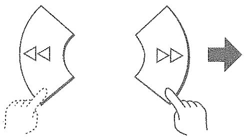

DSP MODE
ATT
TEST TONE
CENTER
REAR
SUBWOOFER

When a three digit code number is input, the power ON/OFF signal will be output from the remote control unit. If the power of the device turns ON or OFF according to this signal, it indicates that the device has been set properly. If the power does not turn ON/OFF, input another code or use the learn function.

■ When there are several manufacturer codes for one manufacturer

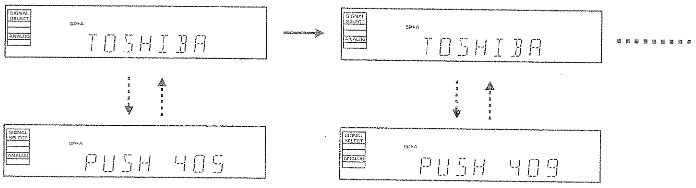
Some manufacturers use several remote control signals. In such cases, the device may not operate even if the manufacturer code displayed at the beginning is input. Perform the following steps, and look for another manufacturer code.

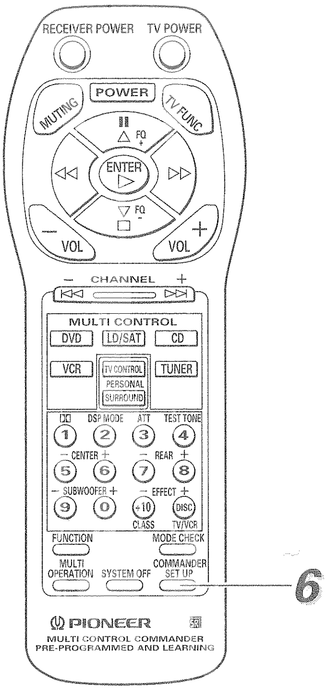
Look for another code of the manufacturer.



Each time these buttons are pressed, other preset codes of the manufacturer will be displayed.

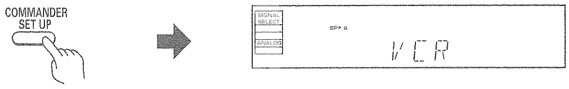
Example: For TOSHIBA


TOSHIBA
TOSHIBA
PUSH 405
PUSH 409


RECEIVER POWER
TV POWER
POWER
MUTING
TV FUNC
ENTER
VOL
CHANNEL
MULTI CONTROL
DVD
LD/SAT
CD
VCR
TV CONTROL
TUNER
PERSONAL SURROUND
DSP MODE
ATT
TEST TONE
CENTER
REAR
SUBWOOFER
EFFECT
CLASS
TV/VCR
FUNCTION
MODE CHECK
MULTI OPERATION
SYSTEM OFF
COMMANDER SET UP
6
PIONEER
MULTI CONTROL COMMANDER
PRE-PROGRAMMED AND LEARNING

5. Repeat steps 2 and 4 and set other functions.

6. Exit the preset mode.


COMMANDER
SET UP
VCR

Returns to normal operations.

* Multi control section of the remote control unit will go off.

memo

- When operating a DVD LD player with the LD/SAT function, set the manufacturer code to "102" in the preset mode.
- The devices can be set to each function button are as below:

DVD : DVD or TV

LD/SAT : LD or SAT

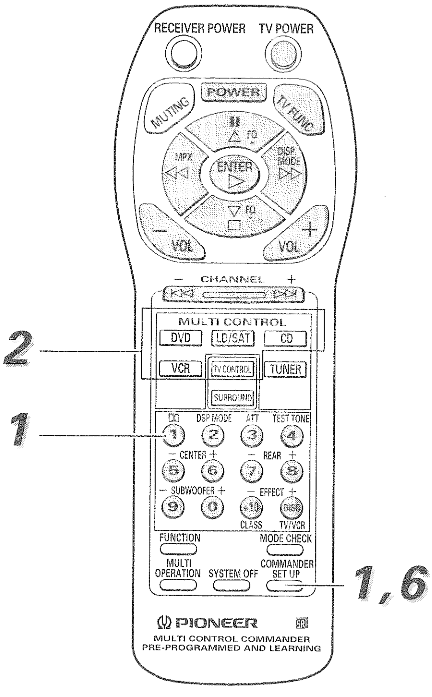
CD : CD

VCR : VCR or TAPE

TV CONTROL : TV

Memorizing other manufacturer's signals this unit's (Learning mode)

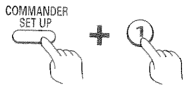
If your equipment does not operate in the preset mode, learn its remote control signals so that it can be operated. If set properly in the preset mode, remote control signals of additional functions can be set by learning (those not shown in pages 21 to 24).


RECEIVER POWER
TV POWER
POWER
MUTING
TV FUNC
MPX
ENTER
DISP MODE
VOL
CHANNEL
MULTI CONTROL
DVD
LD/SAT
CD
VCR
TV CONTROL
TUNER
SURROUND
TEST TONE
CENTER
REAR
SUBWOOFER
EFFECT
FUNCTION
MODE CHECK
MULTI OPERATION
SYSTEM OFF
COMMANDER SET UP
PIONEER
MULTI CONTROL COMMANDER PRE-PROGRAMMED AND LEARNING
2
1
1,6

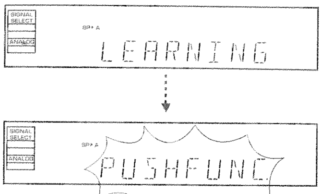
memo

- The TV POWER, TV FUNC button and VOL – and + buttons can only be used for learning when TV CONTROL is selected.
- When TV CONTROL has been selected, memorize the same remote control signal into both TV POWER and POWER.

1. **Set the learning mode.**

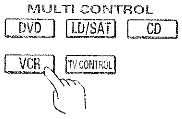

COMMANDER SET UP
+
1

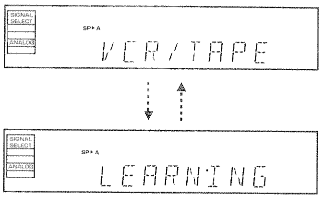
While pressing the COMMANDER SET UP button, press ①.


LEARNING
PUSHFUNC

* Multi control section of the remote control unit will blink.

2. **Select the function to be learnt.**

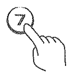

MULTI CONTROL
DVD
LD/SAT
CD
VCR
TV CONTROL


VCR/TAPE
LEARNING

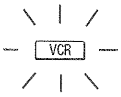
* Only the multi control button selected blinks.

3. **Select the button of the function to be learnt using the remote control unit.**

* Select from the gray buttons in the left figure of the remote control unit.

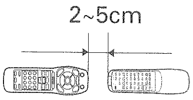


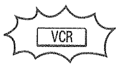
The remote control unit is ready to memorize the operation in the selected button.



* The multi control button of the remote control unit stops blinking and lights.

4. **Face the remote control units at each other. Press the button of the operation of the other manufacturer's device to be learnt. (Press until the multi control button blinks.)**

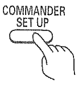




* When learnt, the multi control button of the remote control unit starts blinking.

5. **Repeat steps 2 to 4, and learn other required functions.**

6. **Exit the learning mode.**

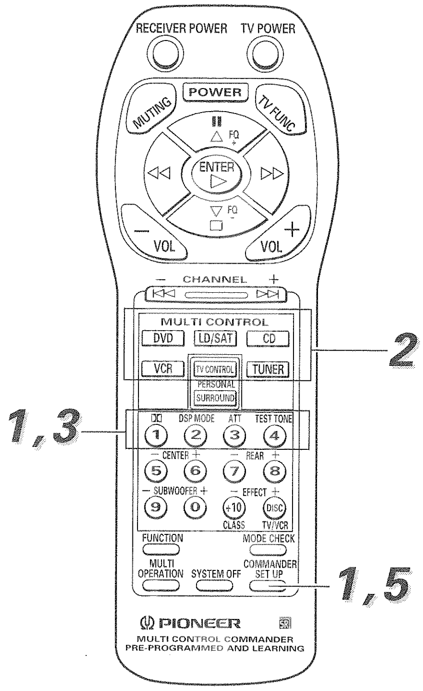

COMMANDER SET UP

Return to normal operations.

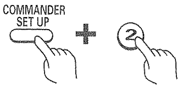
* All multi control buttons will go off.

Turning ON/OFF the power of several devices (Multi Operation)

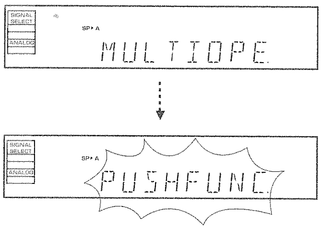
The power of devices connected to this unit can be turned ON/OFF with its remote control unit, and operated with the MULTI-OPERATION button of this remote control unit.


RECEIVER POWER
TV POWER
POWER
MUTING
TV FUNC
ENTER
VOL
CHANNEL
MULTI CONTROL
DVD
LD/SAT
CD
VCR
TV CONTROL
TUNER
PERSONAL SURROUND
DSP MODE
ATT
TEST TONE
CENTER
REAR
SUBWOOFER
EFFECT
CLASS
TV/VCR
FUNCTION
MODE CHECK
MULTI OPERATION
SYSTEM OFF
COMMANDER SET UP
PIONEER
MULTI CONTROL COMMANDER PRE-PROGRAMMED AND LEARNING
2
1,3
1,5

1. Set the multi operation mode.

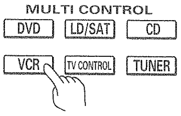

COMMANDER SET UP
+
②

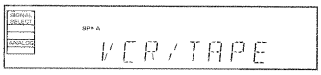
While pressing the COMMANDER SET UP button, press ②.


MULTIOPE
PUSHFUNC

* Multi control section of the remote control unit blinks.

2. Select the desired function.


MULTI CONTROL
DVD
LD/SAT
CD
VCR
TV CONTROL
TUNER



* Only the multi control button selected lights.

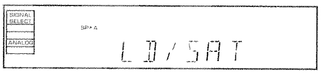
3. Select the operation to be set from the following table, and press the corresponding number button.

* Multi control section of the remote control unit blinks.

4. To continue settings, repeat steps 2 and 3, and set each multi operation function.

5. Exit multi operation mode.

COMMANDER SET UP



Return to normal operations.
* Multi control section will go off.

memo

- For the DVD player, LD player, CD player, VCR, and cassette deck the PLAY signals are output from the remote control unit.
- When the TV preset code is set to the DVD/TV function, as "SELECTED DEVICE POWER" described above is TV, a remote control signal is not output in ③. To turn ON/OFF the TV POWER, set to ② or ④.

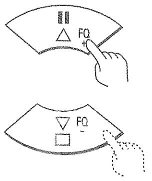
■ Multi Operation Table

Number Button	RECEIVER POWER	TV POWER	SELECTED DEVICE POWER	▶
①	YES →	NO →	NO →	YES
②	YES →	NO →	YES →	YES
③	YES →	YES →	NO →	YES
④	YES →	YES →	YES →	YES

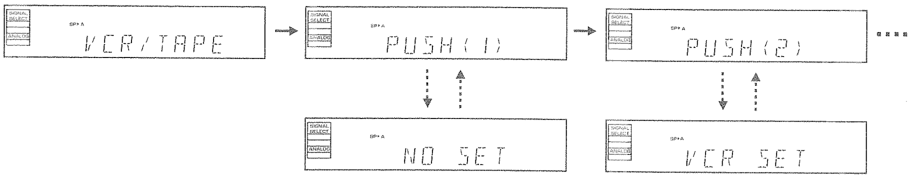
YES: Activated NO: Not activated

memo

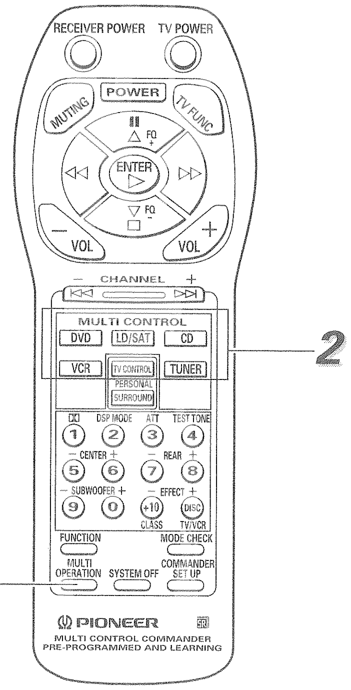
The multi operation can be set while watching the display. (Refer to step 3 on page 29.)



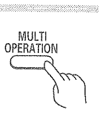
Each time the buttons are pressed, a multi operation is displayed.


VCR/TAPE
PUSH(1)
PUSH(2)
NO SET
VCR SET
....

Performing Multi Operation

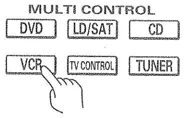

RECEIVER POWER
TV POWER
POWER
MUTING
TV FUNC
ENTER
VOL
VOL
CHANNEL
MULTI CONTROL
DVD
LD/SAT
CD
VCR
TV CONTROL
TUNER
PERSONAL SURROUND
DSP MODE
ATT
TEST TONE
CENTER
REAR
SUBWOOFER
EFFECT
CLASS
TV/VCR
FUNCTION
MODE CHECK
MULTI OPERATION
SYSTEM OFF
COMMANDER SET UP
PIONEER
MULTI CONTROL COMMANDER
PRE-PROGRAMMED AND LEARNING
1
2

1. Enter the multi operation mode.


MULTI
OPERATION

All multi control buttons of the remote control unit blinks.

2. Select the desired function.


MULTI CONTROL
DVD
LD/SAT
CD
VCR
TV CONTROL
TUNER

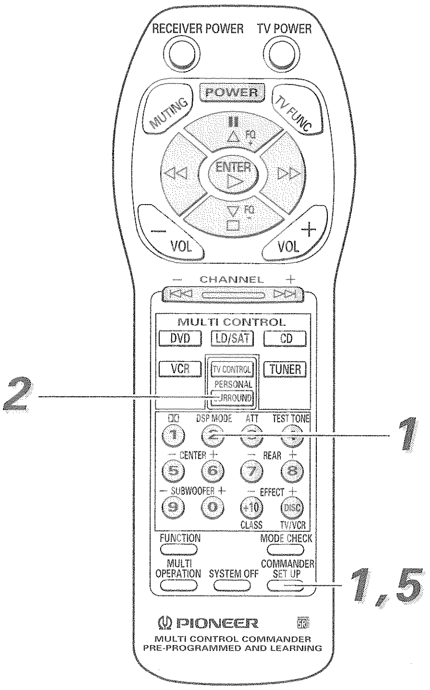
The power of this unit is turned ON, the function switches, and the power of the selected device turns ON/OFF according to the settings on page 29. (Some devices may start playback after this, such as a DVD player, CD player, LD player, VCR or cassette deck.)

memo

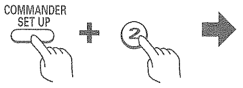
The power of this unit does not turn on when TV CONTROL is selected.

MULTI OPERATION/PERSONAL MODE

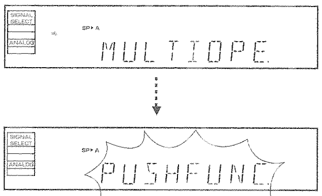
Up to 10 signals sent from the remote control unit can be selected and set freely. By combining with the learnt signals, various control is possible.
The remote control signals of the shaded buttons in the following diagram can be set.


RECEIVER POWER
TV POWER
MUTING
POWER
TV FUNC
ENTER
FQ
VOL
CHANNEL
MULTI CONTROL
DVD
LD/SAT
CD
VCR
TV CONTROL
PERSONAL SURROUND
TUNER
DSP MODE
ATT
TEST TONE
CENTER
REAR
SUBWOOFER
EFFECT
CLASS
TV/VCR
FUNCTION
MODE CHECK
MULTI OPERATION
SYSTEM OFF
COMMANDER SET UP
PIONEER
MULTI CONTROL COMMANDER PRE-PROGRAMMED AND LEARNING
2
1
1,5

1. **Set the multi operation mode.**

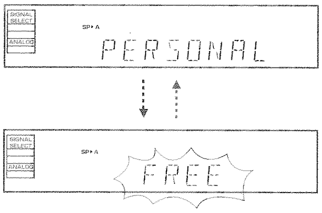

COMMANDER SET UP
+
2

Press ② while pressing the COMMANDER SET UP button.


MULTIOPE
PUSHFUNC

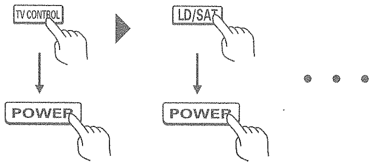
2. **Set the personal mode.**

PERSONAL SURROUND


PERSONAL
FREE

3. **Set the functions to be learnt in order.**

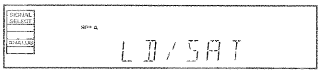
Example:


TV CONTROL
LD/SAT
POWER
POWER

4. **Repeat step 3, and memorize the remote control signals (up to 10).**

5. **End the multi operation (personal mode).**

COMMANDER SET UP

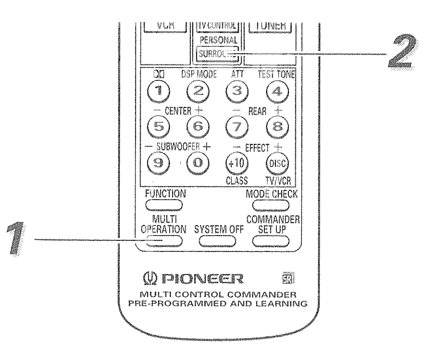


Return to normal operations.

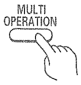
memo

When 10 signals are memorized, the setting mode is automatically ended and the unit returns to normal operation.

Operating the Personal Mode


PERSONAL SURROUND
DSP MODE
ATT
TEST TONE
CENTER
REAR
SUBWOOFER
EFFECT
CLASS
TV/VCR
FUNCTION
MODE CHECK
MULTI OPERATION
SYSTEM OFF
COMMANDER SET UP
PIONEER
MULTI CONTROL COMMANDER PRE-PROGRAMMED AND LEARNING
2
1

1. **Set the multi operation mode.**

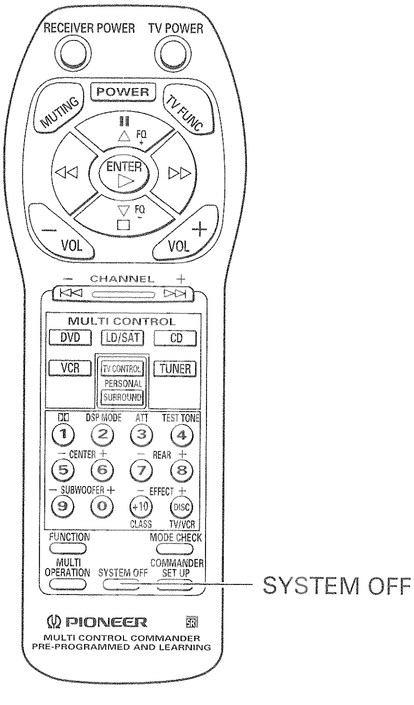

MULTI OPERATION

2. **Set the multi operation mode (personal mode).**

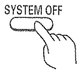
PERSONAL SURROUND

Example: Turns ON the power of the unit, TV and LD player and plays the LD player.

Turning OFF the power of the system


RECEIVER POWER
TV POWER
POWER
MUTING
TV FUNC
ENTER
FQ
VOL
CHANNEL
MULTI CONTROL
DVD
LD/SAT
CD
VCR
TV CONTROL
PERSONAL SURROUND
TUNER
DSP MODE
ATT
TEST TONE
CENTER
REAR
SUBWOOFER
EFFECT
CLASS
TV/VCR
FUNCTION
MODE CHECK
MULTI OPERATION
SYSTEM OFF
COMMANDER SET UP
SYSTEM OFF
PIONEER
MULTI CONTROL COMMANDER
PRE-PROGRAMMED AND LEARNING

Turn OFF the power of the system including this unit.



Devices is will turn OFF according to the multi operation settings.

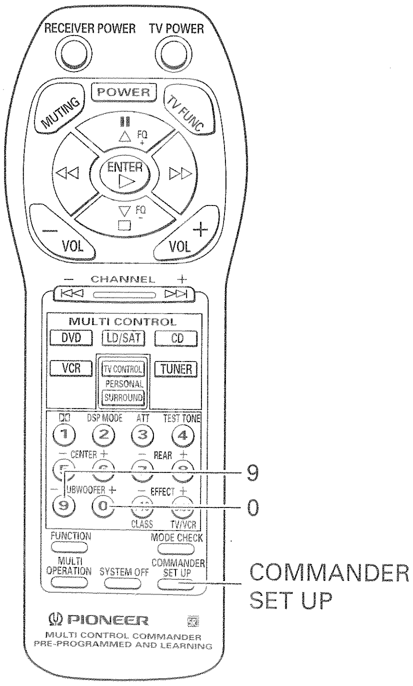
Example:
When you are using the remote control unit for VCR operation, and VCR/TAPE is set to "4" in the Multi Operation on page 29, this unit, TV and VCR will turn OFF table by this operation.

memo

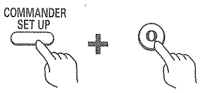
- In some devices that have been turned OFF, turning OFF the system will turn ON the power.
- All the PIONEER products will turn OFF.

CANCELING ALL REMOTE CONTROL SETTINGS

Cancels all settings that have been set or learned.


RECEIVER POWER
TV POWER
POWER
MUTING
TV FUNC
ENTER
FQ
VOL
CHANNEL
MULTI CONTROL
DVD
LD/SAT
CD
VCR
TUNER
DSP MODE
ATT
TEST TONE
CENTER
REAR
SUBWOOFER
EFFECT
CLASS
TV/VCR
FUNCTION
MODE CHECK
MULTI OPERATION
SYSTEM OFF
COMMANDER SET UP
9
0
COMMANDER SET UP
PIONEER
MULTI CONTROL COMMANDER
PRE-PROGRAMMED AND LEARNING

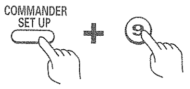
Cancel the setting.


COMMANDER SET UP
+

All multi control buttons of the remote control will blink. After blinking three times, all settings will be canceled.

While pressing the COMMANDER SET UP button, press ⓪ for more than 3 seconds.

Erase the learnt contents.


COMMANDER SET UP
+

All multi control buttons of the remote control will blink. After blinking three times, the learnt contents will be erased.

While pressing the COMMANDER SET UP button, press ⑨ for more than 3 seconds.

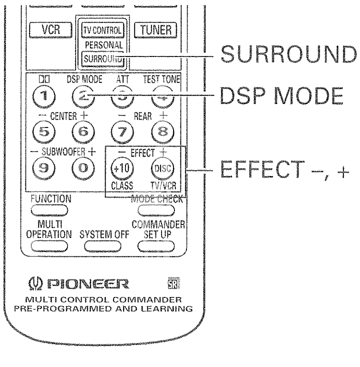
ENJOYING SURROUND EFFECTS

memo

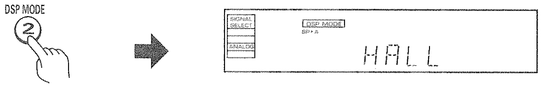
- Turn ON SPEAKER A before operating.
- Even if both SPEAKERS A and B are turned ON, SPEAKERS B is turned off automatically.
- If SPEAKER B is ON, the surround mode will not be set.

Select the SURROUND button to enable surround operations.

Switching the DSP MODE


VCR
TV CONTROL
TUNER
PERSONAL SURROUND
DSP MODE
ATT
TEST TONE
CENTER
REAR
SUBWOOFER
EFFECT
CLASS
TV/VCR
FUNCTION
MODE CHECK
MULTI OPERATION
SYSTEM OFF
COMMANDER SET UP
PIONEER
MULTI CONTROL COMMANDER
PRE-PROGRAMMED AND LEARNING
SURROUND
DSP MODE
EFFECT –, +

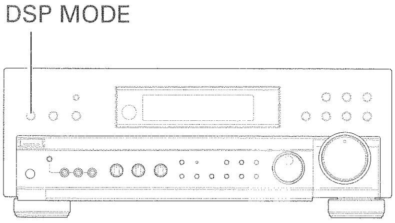
Select the sound effects.


DSP MODE
2
HALL

HALL → JAZZ → DANCE
SURR OFF ← THEATER 2 ← THEATER 1

■ EFFECT level

The intensity of the reflected sound can be adjusted in 9 steps.
Pressing "+" will increase the reverberation, allowing a resounding space to be reproduced.



■ Operations of this unit

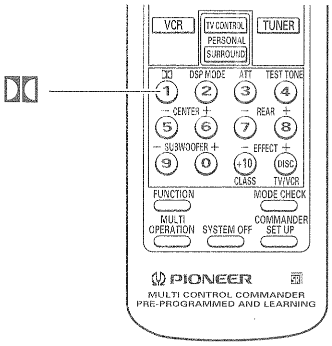
Press the DSP MODE button.

Each time it is pressed, the surround effects change as follows.

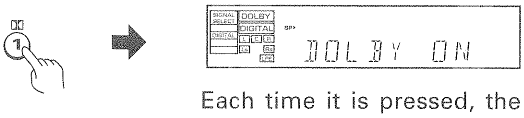
HALL → JAZZ → DANCE
SURR OFF ← THEATER 2 ← THEATER 1

Switching the Dolby Mode

When Dolby mode is ON, the Dolby Pro Logic Surround and Dolby Digital (AC-3) are automatically switched according to the input signal, and playback is performed.


DD
VCR
TV CONTROL
TUNER
PERSONAL SURROUND
DSP MODE
ATT
TEST TONE
CENTER
REAR
SUBWOOFER
EFFECT
CLASS
TV/VCR
FUNCTION
MODE CHECK
MULTI OPERATION
SYSTEM OFF
COMMANDER SET UP
PIONEER
MULTI CONTROL COMMANDER
PRE-PROGRAMMED AND LEARNING

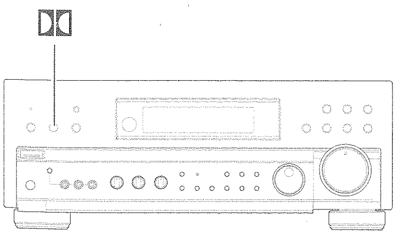
Switch the desired Dolby mode.


DD
1
DOLBY
DIGITAL
DOLBY ON

Each time it is pressed, the mode is turned ON/OFF.

memo

When connecting a LD player or DVD player with the AC-3 RF output or DIGITAL output as shown in the figure on page 14, and playing back LD or DVD disc in DD DOLBY DIGITAL, the unit is switched to Dolby Digital (AC-3) automatically (refer to page 35).

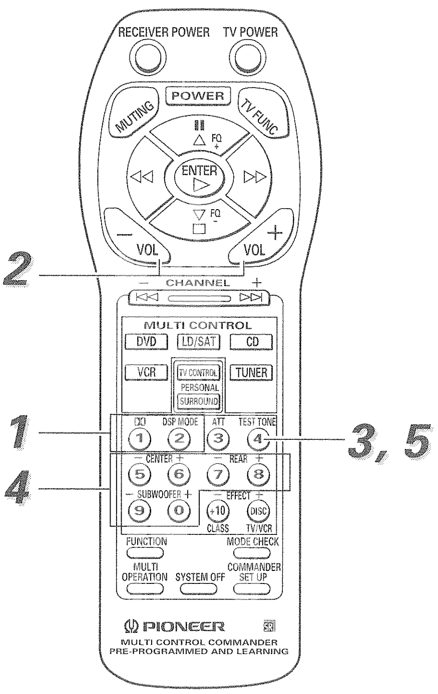


■ Operations with this unit

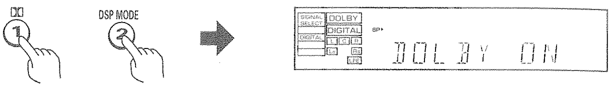
Press the DD button.

The mode is turned ON/OFF each time it is pressed.

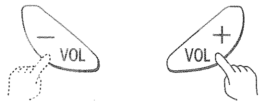
Enjoying movie and music source in surround mode


2
1
4
3, 5
RECEIVER POWER
TV POWER
POWER
MUTING
TV FUNC
ENTER
VOL
CHANNEL
MULTI CONTROL
DVD
LD/SAT
CD
VCR
TV CONTROL
PERSONAL SURROUND
TUNER
DSP MODE
ATT
TEST TONE
CENTER
REAR
SUBWOOFER
EFFECT
CLASS
TV/VCR
FUNCTION
MODE CHECK
MULTI OPERATION
SYSTEM OFF
COMMANDER SET UP
PIONEER
MULTI CONTROL COMMANDER
PRE-PROGRAMMED AND LEARNING

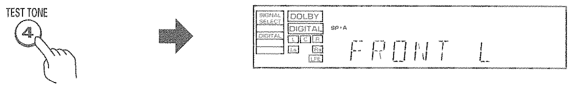
1. Select the Dolby mode and DSP mode (Either mode can be set independently.).


DSP MODE
DOLBY ON

2. Adjust to the desired volume.



3. Set the test tone.

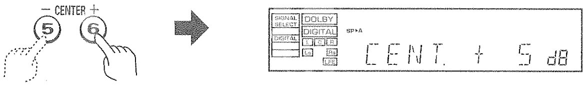

TEST TONE
FRONT L

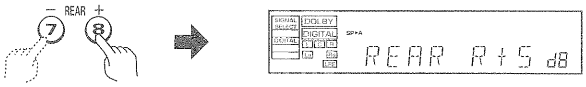
→ Front L → Center → Front R
Sub woofer ← Rear L ← Rear R ←

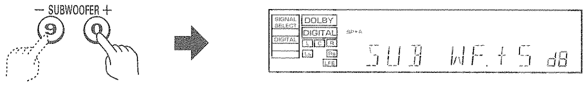
* Performed with the contents set in the SPEAKER setting mode. (Refer to page 37.)

4. Adjust the center level, rear level, rear balance and sub woofer level so that the test tone volume output from each speaker is the same.

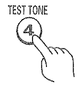
- Level can be set for each surround mode.
- When both the DSP mode and Dolby mode are turned ON, priority is given to the Dolby mode.


– CENTER +
CENT. + 5 dB


– REAR +
REAR R + 5 dB


– SUBWOOFER +
SUB WF. + 5 dB

5. Turn OFF the test tone.



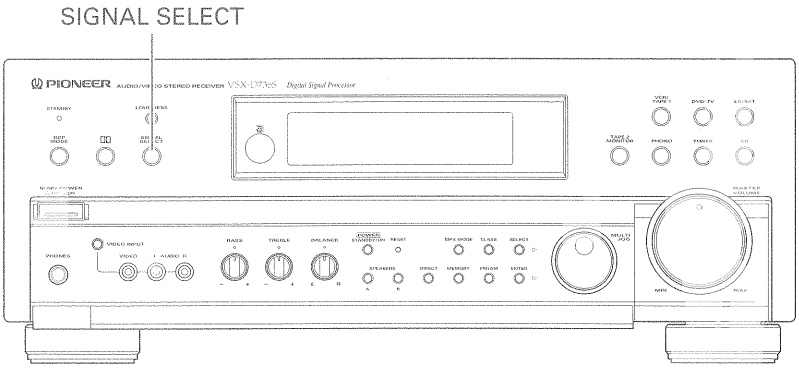
6. Play the desired source.

memo

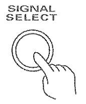
- This operation need not be performed each time the Dolby mode and DSP mode are turned ON.
- Although test tone is output independently for the Lch and Rch of the rear speakers, the Lch and Rch are operated together when adjusting the rear level.
  If there is a difference between the Lch and Rch, adjust it based on "⑨ Rear balance setting mode" on page 40.
- When the sub woofer mode is OFF, the sub woofer level cannot be adjusted (Refer to page 38.).

SWITCHING THE INPUT SIGNAL

The functions DVD and LD have a digital input terminal and AC-3 RF input terminal (LD player only) in addition to the analog input terminal. When the input terminals are connected to the DVD player and LD player output terminals, several input signals will be sent from each player. Use the SIGNAL SELECT button to select input signal. Normally when set to "AUTO", the SIGNAL SELECT mode will change automatically according to the input signal of the player.



Switch according to the input signal format.



➡ AUTO ⟶ ANALOG ⟶ DIGITAL ⟶ AC-3 RF ⟶ AUTO
(Function LD only)

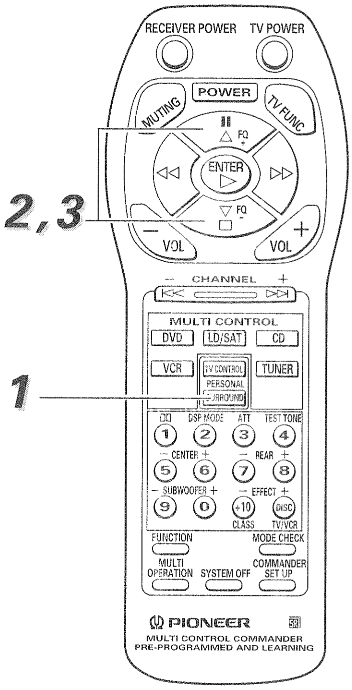
memo

- When set to "AUTO", and several signals such as analog, digital, and AC-3 RF are preset, the signals with priority are;
  AC-3 RF, digital, analog.
- When selecting functions other than the DVD and LD functions, the SIGNAL SELECT will be set to "ANALOG".

SETTING MODE

To utilize the surround effects of this unit to the fullest, set according to the speaker system in use. (When using for the first time, or when the speaker system has been changed, set the setting mode.)

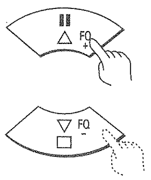
Operating the setting mode


2,3
1
RECEIVER POWER
TV POWER
POWER
MUTING
TV FUNC
FQ
ENTER
VOL
CHANNEL
MULTI CONTROL
DVD
LD/SAT
CD
VCR
TV CONTROL
TUNER
PERSONAL SURROUND
DSP MODE
ATT
TEST TONE
CENTER
REAR
SUBWOOFER
EFFECT
CLASS
TV/VCR
FUNCTION
MODE CHECK
MULTI OPERATION
SYSTEM OFF
COMMANDER SET UP
PIONEER
MULTI CONTROL COMMANDER
PRE-PROGRAMMED AND LEARNING

1. **Select the SURROUND button to enable SURROUND operation.**

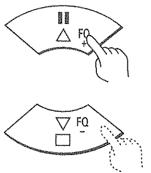
PERSONAL
SURROUND

2. **Call the setting mode.**



➡ The previously set setting mode will be called. The settings will be displayed for 20 seconds.

3. **Select the setting mode.**



➡

SPEAKER setting mode
↓
SUB WOOFER ON/OFF mode
↓
Crossover frequency setting mode
↓
LFE attenuator setting mode
↓
Low cut filter ON/OFF setting mode
↓
CENTER delay time setting mode
↓
REAR delay time setting mode
↓
Dynamic range compression setting mode
↓
REAR balance setting mode

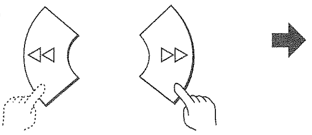
4. **While the setting mode is displayed, set in detail according to the "Contents and Changes of the Setting Mode" on page 37.**

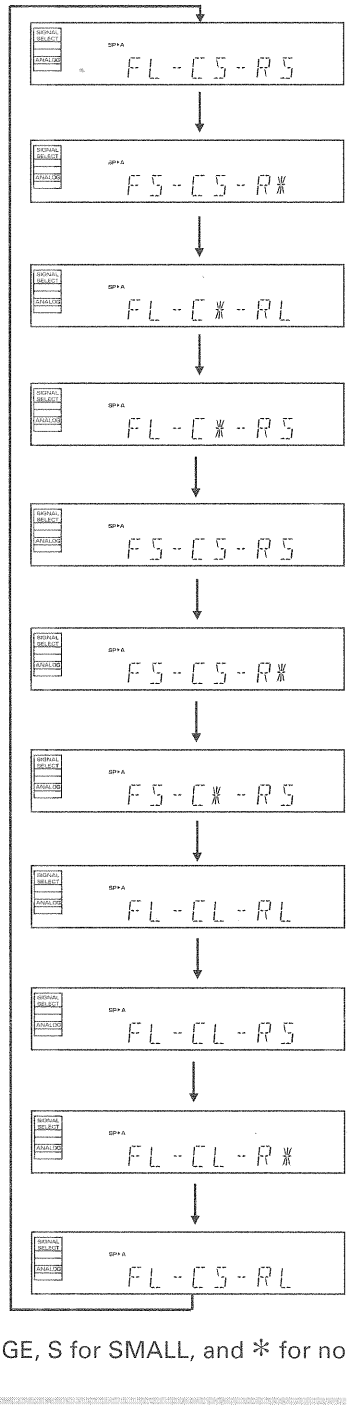
Contents and changes of the setting mode

①SPEAKER setting mode

Sets whether front, center, rear speakers of the system are used or not, and their sizes.

Switch the setting mode according to the speaker system currently installed.




SIGNAL SELECT
ANALOG
SP▸A
FL-CS-RS
FS-CS-R*
FL-C*-RL
FL-C*-RS
FS-CS-RS
FS-CS-R*
FS-C*-RS
FL-CL-RL
FL-CL-RS
FL-CL-R*
FL-CS-RL

In the displays, F stands for FRONT, C for CENTER, R for REAR, L for LARGE, S for SMALL, and * for no speakers.

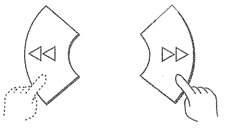
memo

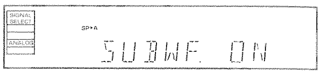
- Initially, the speakers are set as follows.
  FRONT: Large, CENTER: Small, REAR: Small
- The low-level sounds of a channel set to S (Small) are playback from a channel set to L (Large) or a SUB WOOFER (sub woofer: ON).

②SUB WOOFER ON/OFF setting mode

Sets whether SUB WOOFER (special bass speaker) is used or not.

Turn ON/OFF the SUB WOOFER.





It turns ON or OFF each time the button is pressed.

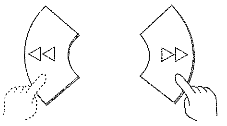
memo

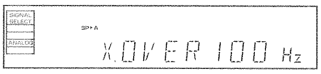
- Initially it is set to OFF.
- If SMALL is selected for the FRONT speaker in the SPEAKER mode, SUB WOOFER is set to ON, and cannot be turned OFF.
- If a sub woofer which is a type to connect to the SPEAKER output not to the SUB WOOFER PRE OUT is used, turn OFF the SUB WOOFER mode.
- When DSP OFF or DOLBY OFF is selected, or when the FRONT speaker is set to LARGE in the SPEAKER setting mode, no sound comes out from SUB WOOFER.

③Crossover frequency setting mode

When the bass range of speakers set at SMALL are divided to other speakers with bass functions in the ①SPEAKER setting mode, sets how much sound (below how many Hz) is to be divided to the other speakers during playback.

Set the crossover frequency.





→ 100 Hz → 150 Hz → 200 Hz →

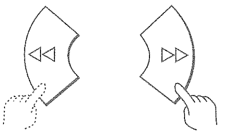
memo

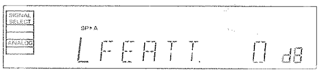
- Initially, it is set to 100Hz.
- It is recommended that it be set to 200Hz when only small speakers are used, although this depends on the efficiency of the speaker.
- If all speakers (front, center, rear) are set to LARGE in ① SPEAKER setting mode, crossover frequency cannot be set.

④LFE Attenuator setting mode

If this ultra bass component (LFE channel) distorts the sound from the speakers, set to attenuate the level.

Set the attenuation level.





→ 0dB → 10dB → ∞ (Display/**) →

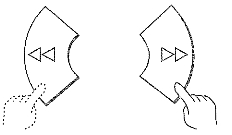
memo

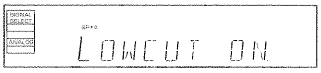
Initially, it is set to 0 dB.

⑤Low cut filter ON/OFF setting mode

Turn ON the low cut filter when distorted sound is output through the sub woofer.

Turn ON/OFF the low cut filter.





It turns ON or OFF each time the button is pressed.

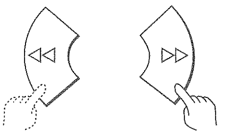
memo

- Initially, it is set to OFF.
- If the SUB WOOFER is set to OFF in the SUB WOOFER ON/OFF mode, the low cut filter cannot be set.

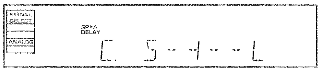
⑥CENTER delay time setting mode

Normally as the CENTER speaker is placed directly in front in the listening room, it is closer to the listening position than the FRONT speakers. This means that the sound from the CENTER speaker will be heard before the FRONT speakers. To prevent this, use the CENTER delay time setting mode to set the same distance to the listening position for the FRONT and CENTER speakers.
One step sets about 30 cm.

Set the CENTER delay time.



Moves by one step each time the buttons is pressed.



S:SHORT
L:LONG
Can be set up to 6 steps.

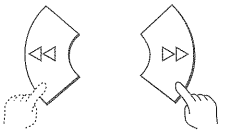
memo

- Initially, it is set to the shortest time (0 ms).
- When it is set to no CENTER speaker in ①SPEAKER setting mode, the CENTER delay time cannot be set.
- The CENTER delay time is effective only in Dolby Digital.

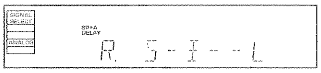
⑦REAR delay time setting mode

Like the ⑥CENTER delay time setting mode, set so that the distance from the FRONT speakers to the listening position and that from the REAR speakers to the listening position are virtually the same.
One step sets about 1 to 1,5m.

Set the REAR delay time.



Moves by one step each time the button is pressed.



Can be set up to 4 steps.

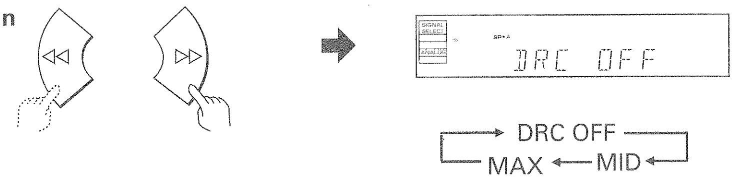
memo

- Initially, the distance from the listening position to the REAR speakers is set shorter than that to the FRONT speakers.
- When it is set to no REAR speakers in ① SPEAKER setting mode, the REAR delay time cannot be set.
- The REAR delay time is effective in the Dolby mode (both for Dolby Digital and Pro-Logic).

⑧Dynamic range compression mode

Dynamic range means playback performance. It indicates in numbers (dB) how loud and low-level sounds can be played back properly (so that low-level sounds are not covered by noises and the loud sounds are not distorted). Dynamic range compression is a function which compresses this dynamic range. Even when watching a movie with the volume set to a low-level, setting this function enables low level sounds to be heard more easily.

Set the dynamic range compression mode.



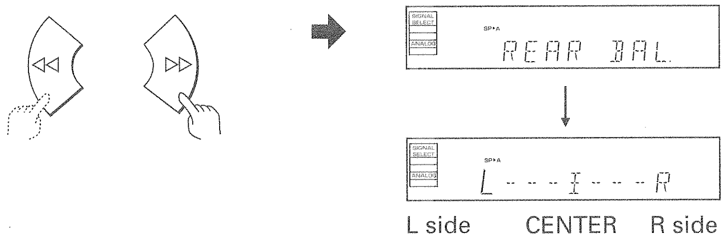
memo

- Initially, it is set to OFF.
- When raising the volume level, set to OFF.

⑨REAR balance setting mode

Adjusts the left and right volume balance of the REAR speakers.

Set the REAR balance.



memo

- Initially, it is set to CENTER.
- When the ①SPEAKER setting mode is set to no REAR speaker or when Surround mode is OFF, REAR balance cannot be set.

5. OTHER

SURROUND

Surround type

Dolby Digital (AC-3)

Mode for enjoying movie and music software with the DOLBY DIGITAL (DOLBY SURROUND AC-3 DIGITAL) mark.

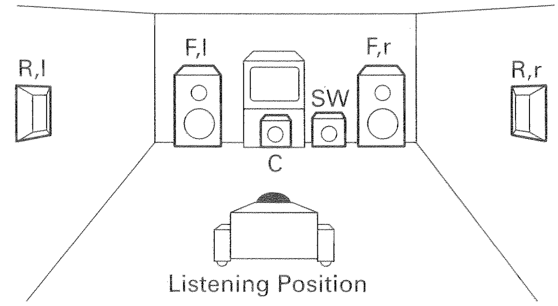
Dolby digital (AC-3) is a compression format which records the sound of 6 channels of the theater surround system (DOLBY Surround Digital) on the movie film digital track. Of the 6 channels, the sub woofer channel is intended for bass only, and because the frequency range is smaller than the main channel, it is expressed as 5.1 channel.

Dolby Pro Logic Surround

Set to this position for movie and music sources (especially software with the DOLBY SURROUND mark).

The Dolby Pro Logic Surround continuously detects the size and direction of the input signal.

This clarifies the position of the sound source, reproducing natural sound flow.



* In the above figure, F stands for FRONT speakers, R for REAR speakers, C for CENTER speaker, SW for sub woofer, r for right, and l for left.

Manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby", "AC-3", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

■ DSP mode

HALL	Simulates the acoustic effects of a large concert hall in Europe. Suitable for classical music. Long delay time of reflected sounds (approx. 20 to 200 ms), coupled with reverberation effects let the listener enjoy the dynamic and beautiful sounds characteristic of concert halls and powerful orchestral performances.
JAZZ	Simulates the acoustic effects of general jazz clubs with a floor space of around 400 m^2. Reflected sound is virtually below 100 ms, for the listener to enjoy live-band effects.
DANCE	Simulates the acoustic effects of discos with a square dance floor. Features strong bass sound. Reflected sound delay time is virtually below 50 ms, for the listener to enjoy the "fever" of disco sounds.
THEATER 1	Sets the delay time of the reflected sound best suited for playing back acoustic parameters of a medium movie theater (with seating capacity of 300) in your living room. (About 30 to 120 msec.)
THEATER 2	Reproduces theater sound field effects without losing the localization of each channel. Theater effects can be enjoyed without losing Dolby Digital (AC-3) or Dolby Pro Logic effect when used in combination.

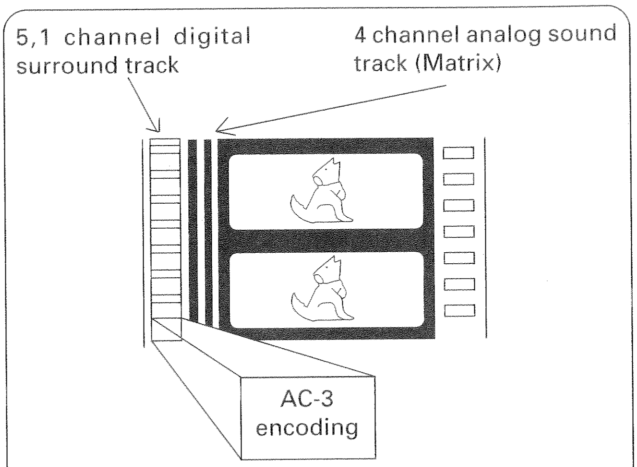
memo

Use of THEATER 1 or 2 together with the Dolby mode [Dolby Digital (AC-3) or Dolby Pro Logic] will produce better surround effects.

Dolby Digital (AC-3)

Dolby Digital (AC-3) is the name of the Dolby surround multi-channel digital system that was developed after the Dolby Surround System and Dolby Pro Logic Surround System.

As this system allows analog sounds to be recorded on film, films can be shown in movie theaters with the analog audio system only.


5,1 channel digital surround track
4 channel analog sound track (Matrix)
AC-3 encoding

AC-3 for movie films

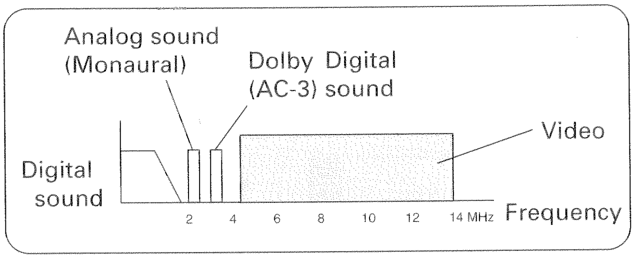
The number of movies made using Dolby Digital since 1992 has exceeded 300 and continues to increase. For compact disc players and laser disc digital sounds, 16 bits are used to sample the original analog audio waveform and sampling is carried out 44.100 times every second. However because an enormous amount of recording signal data is required for the multi channel system with this method, AC-3 is used to compress the data.

In reproducing audio signals, the smaller the bit number used, the lower the sound quality. With AC-3, drop in auditory sound quality is prevented by using masking technology and digital filtering technology based on the personal auditory characteristics.

■ Laser disc format

Laser discs are now available on the market in large numbers. This means that the recording of different format audio signals on the laser disc raises the important question of compatibility with existing laser discs. Dolby Digital (AC-3) records signals using one analog audio channel to maintain this compatibility with existing discs and players.

As shown in the following figure, the digital audio sounds of Dolby Digital (AC-3) discs can be played back as currently done. Analog sounds are played back by using the other channel without the Dolby Digital (AC-3) signals for monaural audio signals.



■ Comparison with Dolby Pro Logic Surround

Dolby Digital (AC-3) is also known as the 5,1 channel system. It is equipped with 5 channels (front left, front right, center, rear left, rear right) in the frequency range from 20 Hz to 20 kHz and an independent sub woofer channel. The sub woofer channel is also called LFE (Low Frequency Effect).

The LFE channel can be used as desired to enjoy strong bass sounds.

The following table shows the comparison with Dolby Pro Logic Surround effects.

	Dolby Digital (AC-3)	**Dolby Pro Logic Surround**
No. of recording channels	5,1 channels (Max.)	2 channels
No. of playback channels	5,1 channels (Max.)	4 channels
Playback channel structure	Front left, front right, center, rear left, rear right, sub woofer	Front left, front right, center, rear
Sound processing	Digital discrete processing	Analog matrix processing
Rear (Surround) high frequency playback limit	20.000 Hz	7.000 Hz
Other	● 5,1 channel is completely independent ● High dynamic range ● Stable position, high phase characteristics, and advanced surround effects reproduction	

TROUBLESHOOTING

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Investigate the other components and electrical appliances being used. If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest PIONEER authorized service center or your dealer to carry out repair work.

Symptom	Cause	Remedy
The power does not turn ON.	● The power plug is disconnected from the outlet.	● Insert into the wall outlet.
	● The cause may lie in the protection circuit.	● Disconnect the power plug from the outlet, and insert again.
The unit does not work even when the buttons are pressed.	● Due to effects of static electricity when the air is dry.	● Press the front panel RESET button. ● Disconnect the power plug from the outlet, and insert again.
No sound is output when a function is set.	● Not properly connected.	● Refer to pages 12, 13 and 14 and connect again.
	● Sound is muted.	● Press the MUTING button on the remote control unit.
	● The volume is turned down.	● Adjust MASTER VOLUME.
	● The TAPE 2 MONITOR is ON.	● Press the TAPE 2 MONITOR button.
	● The speaker switch is OFF.	● Press the SPEAKER button of terminal (A/B) connected to the speakers.
No image is output when a function is set.	● Not properly connected.	● Refer to pages 12 and 13, and connect again.
	● The input source is not properly selected.	● Press the correct button.
Considerable noise in radio broadcasts	● Not received at proper frequency.	● Receive the correct frequency.
	● The antenna is not connected.	● Connect the antenna properly. (P. 12, 13)
	● AC-3 RF and digital signal connection wires are near the antenna terminal and antenna wires.	● Distance the AC-3 RF and digital signal wires from the antenna terminal and antenna wires.
	[FM broadcast reception]	
	● The FM antenna is not stretched out.	● Stretch out the antenna.
	● Weak radio waves.	● Change the FM antenna to an outdoor antenna of multiple elements. (P. 12)
	[AM broadcast reception]	
	● The AM antenna faces inappropriate direction.	● Select the direction and position with the best reception state.
	● Weak radio waves.	● Connect a 5 to 6 meter long vinyl-coated wire to the AM antenna terminal and extend the wire outdoors, if possible. (P. 12)
	● Affected by other equipment. (Fluorescent lamp, motor, etc.)	● Turn off the equipment which cause noise or move them away from the unit. ● Distance the antenna from the equipment which cause noise.
Broadcast stations cannot be selected automatically.	● Weak radio waves.	● Change the FM antenna to an outdoor antenna of multiple elements. (P. 12)

Symptom	Cause	Remedy
No sound from rear or center speakers.	● Settings are incorrect. ● Rear or Center level is turned down. ● The REAR or CENTER speaker is disconnected.	● Refer to page 37 and set. ● Raise the level. ● Connect. (P. 12, 13)
Sound is produced from other functions, but no sound from LD player or DVD player.	● SIGNAL SELECT is set to other input signal than that connected to.	● Set the SIGNAL SELECT to AUTO.
Cannot be remote controlled.	● The remote control unit batteries have worn out. ● Too great of a distance. Bad angle. ● There is an obstacle blocking signals in between the unit and the remote control. ● Strong light such as fluorescent light is shining onto the unit's remote control signal light-receiving window.	● Replace the batteries. (P. 7) ● Operate within 7 m, 30 deg. from the left and right of the unit's remote control light-receiving window. ● Remove the obstacle or operate from somewhere else. ● Avoid direct exposure of the remote control light-receiving window to the light.

If the unit does not operate normally due to external effects such as static electricity, press the RESET button on the front panel or disconnect the power plug from the outlet and insert again to return to normal operating conditions.

POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement.

MAINTENANCE OF EXTERNAL SURFACES

- Use a polishing cloth or dry cloth to wipe off dust and dirt.
- When the surfaces are dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water, and wrung out well, and then wipe again with a dry cloth. Do not use furniture wax or cleaners.
- Never use thinners, benzine, insecticide sprays or other chemicals on or near this unit, since these will corrode the surfaces.

LIST OF MANUFACTURER CODES

Device	Manufacturer	Manufacturer Code
DVD	TOSHIBA	001
	PIONEER	000
LD	SONY	101
	PANASONIC	105,106
	KENWOOD	103
	PHILIPS	104
	MITSUBISHI	100
	RCA	107
	PIONEER	100 102 (DVD code)
SAT	RCA	201,203
	SONY	202
	PIONEER	200
VCR	RCA	401,406,408,414,405,413,411 415
	ZENITH	403,404,417
	MAGNAVOX	414,408,426,403
	FISHER	410,426,412,427,425,420
	PANASONIC	408,432,433
	TOSHIBA	405,409,426
	JVC	428,430,429,408,414,431,407
	HITACHI	408,401,406,436,434
	SONY	416,417,404,408
	MITSUBISHI	409,420,421,422,423,424,408 407
	SANYO	410,412,425,435
	SHARP	402,418,419
	GOLDSTAR	411,409
	OPTIMUS	408,432,433,402,418,419
	PIONEER	400
TAPE	SONY	801,806
	TECHNICS	803
	KENWOOD	804,807
	TEAC	805
	DENON	810
	ONKYO	809,808
	YAMAHA	811,812
	JVC	802
	FISHER	813
	OPTIMUS	800
	PIONEER	800
CD	SONY	301,316,317,318
	TECHNICS	304,326
	KENWOOD	310,321,311
	DENON	309
	RCA	302,319,313
	PHILIPS	312,322
	YAMAHA	315,314,328
	JVC	303
	TEAC	305,306,327,324,325
	ONKYO	320,308,307
	MARANTZ	323,312,324
	SANYO	313
	OPTIMUS	300
	PIONEER	300
TV	RCA	601,610,615,616,617,618
	ZENITH	603,620
	MAGNAVOX	607,610,603,612,629
	GE	601,608,607,610,617,602,628 618
	PANASONIC	608,622,607
	SONY	604
	TOSHIBA	605,602,626,621
	MITSUBISHI	609,610,602,621
	HITACHI	606,610,624,625,618
	JVC	613,623
	SHARP	602,619,627
	SANYO	621,614
	PHILIPS	607
	GOLDSTAR	610,623,621,602
	RADIO SHACK	610,623,621,602
	PIONEER	600
CATV	JERROLD	711,701,702,712,704,713,703 714,716,715
	S.A.	705,706,708,709
	ZENITH	707,717,710
	PIONEER	700

SPECIFICATIONS

Amplifier Section

Continuous average power output of 65 watts* per channel, min., at 8 ohms, from 20 Hz to 20.000 Hz with no more than 0,09 % total harmonic distortion (front).**

Continuous Power Output		
(DIN, 1 kHz, T.H.D. 1 %, 4 Ω)		
STEREO	Front	110 W + 110 W
(DIN, 1 kHz, T.H.D. 1 %, 8 Ω)		
STEREO	Front	80 W + 80 W
SURROUND	Front	60 W + 60 W
	Center	60 W
	Rear	60 W + 60 W

Input (Sensitivity/Impedance)	
PHONO MM	2,8 mV/47 kΩ
LD/SAT, CD, VCR/TAPE 1, TAPE 2 DVD/TV, VIDEO	200 mV/47 kΩ
Phono Overload Level (T.H.D. 0,1 %, 1kHz)	
PHONO MM	100 mV
Frequency Response	
PHONO MM	20 Hz to 20.000 Hz ± 0,5 dB
LD/SAT, CD, VCR/TAPE 1, TAPE 2 DVD/TV, VIDEO	5 Hz to 100.000 Hz $^{+0}_{-3}$ dB
Output (Level/Impedance)	
VCR/TAPE 1 REC, TAPE 2 REC	200 mV/1 kΩ
Tone Control	
BASS	± 9 dB (100 Hz)
TREBLE	± 9 dB (10 kHz)
Signal-to-Noise Ratio [DIN (Continuous power output/50 mW)]*	
PHONO MM	67 dB/61 dB
LD/SAT, CD, VCR/TAPE 1, TAPE 2 DVD/TV, VIDEO	82 dB/62 dB

* *Direct: ON*

** *Measured by Audio Spectrum Analyzer.*

VIDEO Section

Input (Sensitivity/Impedance)	
LD/SAT, VCR, DVD/TV, VIDEO	1 Vp-p/75 Ω
Output (Level/Impedance)	
VCR REC, MONITOR TV	1 Vp-p/75 Ω
Frequency Response	
LD/SAT, VCR, DVD/TV, VIDEO → MONITOR	5 Hz to 7 MHz $^{+0}_{-3}$ dB
Signal-to-Noise Ratio	55 dB
Cross Talk	55 dB

FM Tuner Section

Frequency Range	87,5 MHz to 108 MHz
Usable Sensitivity	Mono: 14,2 dBf, IHF (1,4 µV/75 Ω)
50 dB Quieting Sensitivity	Mono: 18 dBf Stereo: 38,3 dBf
Signal-to-Noise Ratio	Mono: 76 dB (at 85 dBf) Stereo: 72 dB (at 85 dBf)
Distortion	Stereo: 0,6 % (1kHz)
Alternate Channel Selectivity	70 dB (400 kHz)
Stereo Separation	40 dB (1 kHz)
Frequency Response	30 Hz to 15 kHz (± 1) dB
Antenna Input	75 Ω unbalanced
Sensitivity (DIN)	Mono: 1,0 µV (S/N 26 dB) Stereo: 50 µV (S/N 46 dB)
Signal-to-Noise Ratio (DIN)	Mono: 62 dB Stereo: 58 dB

AM Tuner Section

Frequency Range	531 kHz to 1.602 kHz
Sensitivity (IHF, Loop antenna)	350 µV/m
Selectivity	30 dB
Signal-to-Noise Ratio	50 dB
Antenna	Loop antenna

Miscellaneous

Power Requirements	
Singaporian model	AC 220-230 V, 50/60 Hz
Australian model	AC 240 V, 50/60 Hz
Power Consumption	770 W
Dimensions	420 (W) × 160 (H) × 433 (D) mm
Weight (without package)	12,5 kg

Furnished Parts

FM Antenna	1
AM Loop Antenna	1
Dry Cell Batteries [size "AA" (IEC LR6)]	2
Remote Control Unit	1
Operating Instructions	1
Warranty Card (Australian model only)	1
Sub Instruction Manual (Remote Control Unit)	1
Sub Instruction Manual [Dolby Digital (AC-3)]	1

NOTE:

Specifications and the design are subject to possible modifications without notice, due to improvements.

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